

SLV-ED1ME/ED1PS/ED1SG/ED2SA/ED3AF/ED4ME/ED4PS/ED4SG/ED5ME/ ED6ME/ED6PS/ED6SG/ED7FS/ED7MI/ED7MN/EZ1AZ/EZ4AZ/EZ7AS/EZ7NZ RMT-V245A/V245B/V247/V247A/V248A

SERVICE MANUAL



Photo: SLV-ED1

S MECHANISM

Hi-Fi

- Refer to the **SERVICE MANUAL** of VHS MECHANICAL ADJUSTMENTS VI for MECHANICAL ADJUSTMENTS. (9-921-647-11)

African Model

SLV-ED3AF

Australian Model

SLV-EZ1AZ/EZ4AZ/EZ7AS

E Model

SLV-ED1PS/ED4PS/ED6PS/ED7MN/ED7FS

French Model

SLV-ED7FS

Hong Kong Model

SLV-ED7MI

Irish Model

SLV-ED7MI

ME Model

SLV-ED1ME/ED1SG/ED4ME/ED4SG/
ED5ME/ED6ME/ED6SG/ED7MI

Newzealand Model

SLV-EZ7NZ

South Afrifca Model

SLV-ED2SA/ED7MI

UK Model

SLV-ED7MI

* The abbreviations of ED1, ED2, ED3, ED4, ED5, ED6, ED7, EZ1, EZ4 and EZ7 contained in this service manual are indicated when these models are common to all their corresponding models as given below.

Abbreviated model name	ED1	ED2	ED3	ED4	ED5	ED6	ED7	EZ1	EZ4	EZ7
All model names SLV-	ED1ME ED1PS ED1SG	ED2SA	ED3AF	ED4ME ED4PS ED4SG	ED5ME	ED6ME ED6PS ED6SG	ED7FS ED7MI ED7MN	EZ1AZ	EZ4AZ	EZ7AS EZ7NZ



VIDEO CASSETTE RECORDER



SONY®

SPECIFICATIONS

System

Color system

ED1/ED2/ED4/ED5/ED6/ED7MI/ED7MN:
PAL, MESECAM, NTSC 3.58,
NTSC 4.43

ED3/ED7FS:

PAL, SECAM, MESECAM, NTSC 3.58,
NTSC 4.43

EZ1/EZ4/EZ7:

PAL, NTSC 4.43

TV system

ED1/ED2/ED3/ED4/ED6/ED7MN:

B/G, D/K, I

ED5/ED7FS/ED7MI:

B/G, D/K, I, M

EZ1/EZ4/EZ7

B/G

Channel coverage

ED1/ED2/ED3/ED4/ED5/ED6/ED7:

B/G: VHF E2 to E12/UHF E21 to E69/

CATV S01 to S05, S1 to S41

D/K: VHF R1 to R12, C1 to C12/UHF R21
to R69, C13 to C57

I: VHF SA4 to SA13/UHF B21 to B69/

CATV S01 to S05, S1 to S41

M (ED5/ED7FS/ED7MI): VHF A2 to A13/
UHF A14 to A69/CATV A-8 to A1, A to W,
W+1 to W+84

EZ1/EZ4 (COUNTRY is set to AUS),

EZ7AS:

VHF AS0 to AS12, AS5A, AS9A

UHF AS28 to AS69

CATV S01 to S05, S1 to S41

EZ1/EZ4 (COUNTRY is set to NZ),

EZ7NZ:

VHF NZ1 to NZ11

UHF E21 to E69

CATV S01 to S05, S1 to S41

RF output signal

ED1/ED2/ED3/ED4/ED5/ED6/ED7/

EZ7NZ:

UHF channels 21 to 69

EZ1/EZ4/EZ7AS:

UHF channels 28 to 69

Aerial out

75-ohm asymmetrical aerial socket

Inputs and outputs

LINE-IN (ED1/ED2/EZ1/EZ4/EZ7)

LINE-1-IN (ED3/ED4/ED5/ED6/ED7)

VIDEO IN, phono jack (1)

Input signal: 1 Vp-p, 75 ohms, unbalanced,
sync negative

AUDIO IN (MONO), phono jack (1) (ED1/
ED2/ED3/ED4/ED5/EZ1/EZ4)

AUDIO IN, phono jack (2) (ED6/ED7/EZ7)

Input level: 327 mVrms

Input impedance: more than 47 kilohms

LINE-2 IN (ED4/ED5/ED6/ED7FS/ED7MI)

VIDEO IN, phono jack (1)

Input signal: 1 Vp-p, 75 ohms, unbalanced,
sync negative

AUDIO IN (MONO), phono jack (2) (ED4/
ED5)

AUDIO IN, phono jack (2) (ED6/ED7FS/
ED7MI)

Input level: 327mVrms

Input impedane: more than 47 kilohms

LINE-2 IN (SAT IN) (ED3/ED7MN)

LINE-3 IN (SAT IN) (ED4/ED5/ED6/ED7FS/
ED7MI)

VIDEO IN, phono jack (1)

Input signal: 1Vp-p, 75 ohms, unbalanced,
sync negative

AUDIO IN (MONO), phono jack (2) (ED3/
ED4/ED5)

AUDIO IN, phono jack (2) (ED6/ED7)

Input level: 327mVrms

Input impedane: more than 47 kilohms

LINE OUT

VIDEO OUT, phono jack (1)

Output signal: 1 Vp-p, 75 ohms, unbal-
anced,

sync negative

AUDIO OUT, phono jack (1) (ED1/ED2/
EZ1/EZ4)

AUDIO OUT (MONO), phono jack (2)
(ED3/ED4/ED5)

AUDIO OUT, phono jack (2) (ED6/ED7/
EZ7)

Standard output: 327 mVrms

Load impedance: 47 kilohms

Output impedance: less than 10 kilohms

General

Power requirements

110 – 240 V AC, 50/60 Hz (ED1/ED2/ED3/
ED4/ED5/ED6/ED7)

220-240 V AC, 50 Hz (EZ1/EZ4/EZ7)

Power consumption

19W (ED1/ED2/ED3/ED4/ED5/EZ1/EZ4)

20W (ED6)

22W (ED7/EZ7)

Operating temperature

5 °C to 40 °C

Storage temperature

–20 °C to 60 °C

Dimensions

Approx. 355 × 102 × 278 mm (w/h/d):
(ED1/ED2/EZ1)

Approx. 430 × 100 × 286 mm (w/h/d):
(ED3/ED4/ED5/ED6/ED7/EZ4/EZ7)
including projecting parts and controls

Mass

Approx. 3.7 kg: (ED1/ED2/EZ1)

Approx. 4.2 kg: (ED3/ED4/ED5/ED6/ED7/
EZ4/EZ7)

Supplied accessories

Remote commander (1)

R6 (size AA) batteries (2)

Aerial cable (1)

Plug adaptor (1) (ED1ME/ED1SG/ED3/
ED4ME/ED4SG/ED6ME/ED6SG/ED7FS)

Design and specifications are subject to change
without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following
safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-sol-
dered connections. Check the entire board surface for solder
splashes and bridges.
2. Check the interboard wiring to ensure that no wires are
“pinched” or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transis-
tors, that were installed during a previous repair. Point them
out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs
of deterioration. Point them out to the customer and recom-
mend their replacement.
5. Check the B+ voltage to see it is at the values specified.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED
LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS
AND IN THE PARTS LIST ARE CRITICAL TO SAFE
OPERATION. REPLACE THESE COMPONENTS WITH
SONY PARTS WHOSE PART NUMBERS APPEAR AS
SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-
LISHED BY SONY.

• Feature Difference

FEATURE \ SLV-	ED 1	ED 2	ED 3	ED 4	ED 5	ED 6	ED7 FS	ED7 MI	ED7 MN
HEAD/CH	2/2	2/2	2/2	4/4	4/4	4/6	4/6	4/6	4/6
NTSC (3.58) (REC/PB)	O	O	O	O	O	O	O	O	O
(4.43) (REC/PB)	O	O	O	O	O	O	O	O	O
SECAM (REC/PB)			O				O		
ME-SECAM (REC/PB)	O	O	O	O	O	O	O	O	O
REC (NTSC) (SP/EP)	O/X	O/X	O/X	O	O	O	O	O	O
(PAL) (SP/LP)	O/X	O/X	O/X	O	O	O	O	O	O
PLAY (NTSC) (SP/LP/EP)	O/X/X	O/X/X	O/X/X	O	O	O	O	O	O
(PAL) (SP/LP)	O/X	O/X	O/X	O	O	O	O	O	O
RCA REAR LINE IN/OUT	O	O	O (3pin Y.B.B)	O (3pin Y.B.B)	O (3pin Y.B.B)	O	O	O	O
ADDITIONAL REAR INPUT (SAT IN)			O (3pin Y.B.B)	O (3pin Y.B.B)	O (3pin Y.B.B)	O	O	O	O
RCA FRONT LINE IN/OUT				O (3pin Y.B.B)/X	O (3pin Y.B.B)/X	O/X	O/X		O/X
MODULATOR SYSTEM	G/K/I	G/K/I	G/K/I	G/K/I	G/K/I/I/M	G/K/I	G/K/I/M	G/K/I/M	G/K/I
CLICK SHUTTLE				O	O				
REMOTE COMMANDER RMT-	V248A	V245B	V248A	V247	V247	V247	V247	V247A	V247A

FEATURE \ SLV-	EZ 1	EZ 4	EZ 7
HEAD/CH	2/2	4/4	4/6
NTSC (3.58) (REC/PB)			
(4.43) (REC/PB)	X/O	X/O	X/O
SECAM (REC/PB)			
ME-SECAM (REC/PB)			
REC (NTSC) (SP/EP)			
(PAL) (SP/LP)	O/X	O	O
PLAY (NTSC) (SP/LP/EP)	O/X/X	O	O
(PAL) (SP/LP)	O/X	O	O
RCA REAR LINE IN/OUT	O	O	O
ADDITIONAL REAR INPUT (SAT IN)			
RCA FRONT LINE IN/OUT			
MODULATOR SYSTEM	G	G	G
CLICK SHUTTLE			
REMOTE COMMANDER RMT-	V245B	V245A	V245A

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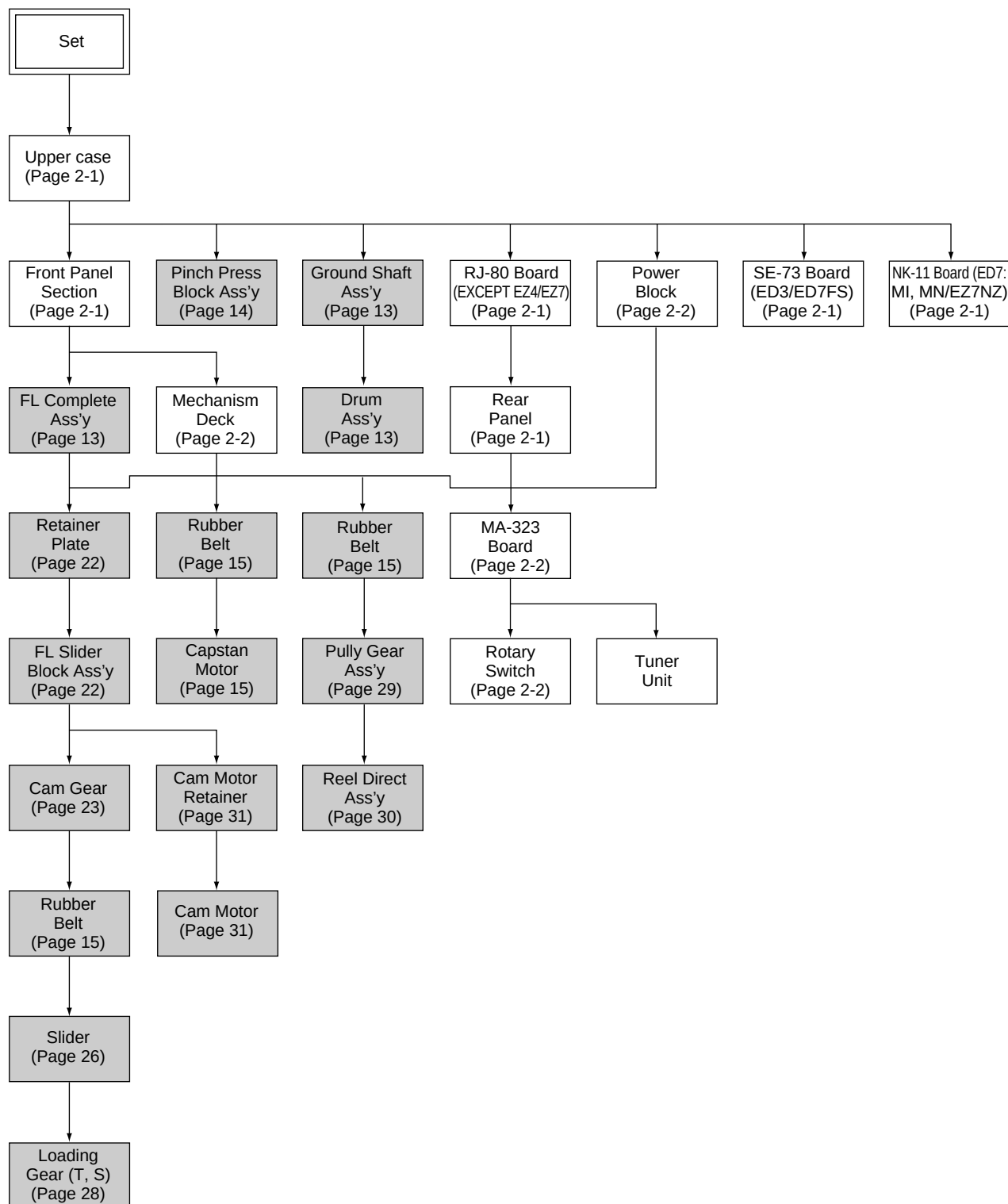
SERVICE NOTE

1. DISASSEMBLY

- This set can be disassembled in the order shown below.

Note: Pages in indicated pages in the SERVICE MANUAL.

Pages in indicated pages in the VHS MECHANICAL ADJUSTMENT MANUAL VI.



SECTION 1 GENERAL

This section is extracted from SLV-ED6ME/PS/SG, SLV-ED7FS instruction manual.

Getting Started

Step 1

Unpacking

Check that you have received the following items with the VCR:

- Remote commander
- Aerial cable
- R6 (size AA) batteries
- Plug adaptor (SLV-ED6ME/SG and SLV-ED7FS only)

Checking your model name

The instructions in this manual are for the 4 models: SLV-ED6ME, ED6PS, ED6SG and ED7FS. Check your model number by looking at the rear panel of your VCR. The SLV-ED6ME is the model used for illustration purpose. Any difference in operation is clearly indicated in the text, for example, "SLV-ED6ME only."

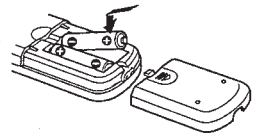
Step 2

Setting up the remote commander

Inserting the batteries

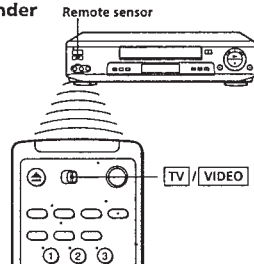
Insert two R6 (size AA) batteries by matching the + and - on the batteries to the diagram inside the battery compartment.

Insert the negative (-) end first, then push in and down until the positive (+) end clicks into position.



Using the remote commander

You can use this remote commander to operate this VCR and a Sony TV. Buttons on the remote commander marked with a dot (•) can be used to operate your Sony TV. If the TV does not have the  symbol near the remote sensor, this remote commander will not operate the TV.



To operate the VCR	Set TV/VIDEO to VIDEO and point at the remote sensor on the VCR
a Sony TV	TV and point at the remote sensor on the TV

Notes

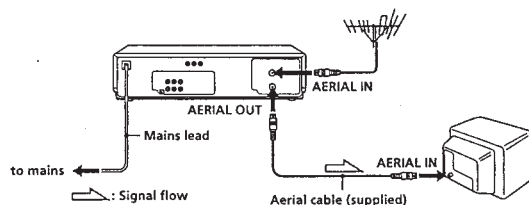
- The TV/VIDEO button selects an input source of the TV from aerial in or line in. The button does not control this VCR.
- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
- Do not use a new battery with an old one.
- Do not use different types of batteries.

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Step 3

Connecting the VCR



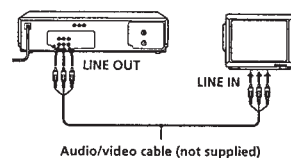
- 1 Disconnect the aerial cable from your TV and connect it to AERIAL IN on the rear panel of the VCR.
- 2 Connect AERIAL OUT of the VCR and the aerial input of your TV using the supplied aerial cable.
- 3 Connect the mains lead to the mains.

Additional connections

To a TV that has audio/video input jacks

This additional connection improves picture and sound quality. Connect the TV as shown on the right.

If you want to use the Trinitron TV Synchro Play function (see page 22), this connection is necessary. (If your TV has two or more inputs, connect the audio/video cable to the VIDEO IN 1 jacks.)

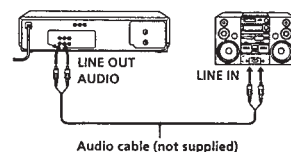


To a stereo system

You can improve sound quality by connecting a stereo system as shown on the right.

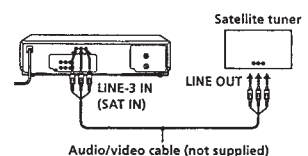
Note

- To listen to playback sounds in stereo, you must use either of the connections above.



To a satellite tuner

You can record programmes from other equipment such as a satellite tuner.



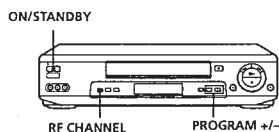
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Step 4

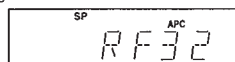
Tuning your TV to the VCR

If you have connected your VCR to the TV using the audio/video cable, skip this step.



- 1 **ON/STANDBY** Press ON/STANDBY to turn on the VCR.

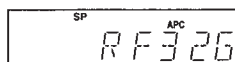
- 2 **RF CHANNEL** Press RF CHANNEL on the VCR. The factory-preset RF channel appears in the display window. The VCR signal is output through this channel to the TV.



- 3 Turn on your TV and select a programme position for the VCR picture. This channel will now be referred to as the video channel.

- 4 **RF CHANNEL** Press RF CHANNEL. The TV system indicator appears in the display window. Press PROGRAM +/- to select the correct TV system.

If your TV system is	Select
B/G	G
I	I
D/K	K
M	M (SLV-ED7FS only)



5

Tune the TV to the same channel as that shown in the display window so that the picture on the right appears on the TV screen.

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Refer to your TV manual for tuning instructions.

If the picture does not appear clearly, see "To obtain a clear picture from the VCR" below.

6



Press RF CHANNEL.

You have now tuned your TV to the VCR. From now on, whenever you want to play a tape, set the TV to the video channel.

To check to see if the TV tuning is correct

Set the TV to the video channel and press PROGRAM +/- on the VCR. If the TV screen changes to a different programme each time you press PROGRAM +/-, the TV tuning is correct.

To obtain a clear picture from the VCR

If the picture does not appear clearly in step 5 above, go to step 6 to finish this procedure once. Then start from step 2. After pressing RF CHANNEL in step 2 to display the RF channel, press PROGRAM +/- so that another RF channel appears. Then tune the TV to the new RF channel until a clear picture appears.

Note

- If you set the wrong TV system, you may have no sound or sound may be distorted (noisy sound).

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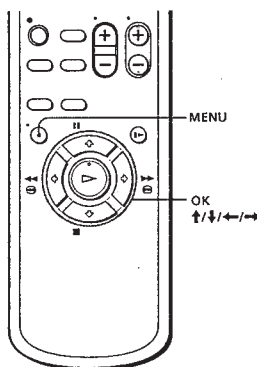
Step 5

Selecting a language

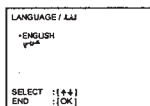
You can change the on-screen display language from English to Arabic.

Before you start...

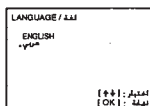
- Turn on the VCR and the TV.
- Set the TV to the video channel.



- 1 **MENU** Press MENU, then press $\uparrow/\downarrow$ to move the cursor ($\blacktriangleright$) to LANGUAGE and press OK.



- 2 Press $\uparrow/\downarrow$ to select the desired language, then press OK.



Step 6

Presetting channels

First, we recommend that you preset the receivable channels in your area using one touch tuning. If one touch tuning could not preset the channels correctly, you can preset them automatically using the menu. Then, if some channels could not be preset automatically, set them manually; if there are any unwanted channels among the preset ones, you can disable the channels.

Presetting all receivable channels using one touch tuning

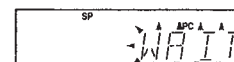


ONE TOUCH TUNING

1



Press ONE TOUCH TUNING on the VCR for more than 3 seconds. The VCR starts the channel presetting.



The WAIT indicator goes off when all receivable channels are preset.

To check to see if the channels are preset correctly

Set the TV to the video channel and press PROGRAM +/- on the VCR. If the TV screen changes to a different programme each time you press PROGRAM +/-, the channels are preset correctly.

If the sound is distorted or noisy, the VCR is set to a TV system different from your area's. Select the TV system and preset channels using the TUNER PRESET menu on the next page.

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continued

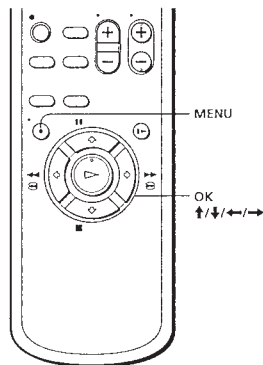
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Step 6: Presetting channels (continued)

Presetting all receivable channels automatically

Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.



- 1 Press MENU, then press $\uparrow/\downarrow$ to move the cursor ($\blacktriangleright$) to TUNER PRESET and press OK.



e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 1
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	1
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

- 2 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to move the cursor ($\blacktriangleright$) to SYSTEM, then select B/G, D/K or I (or M: SLV-ED7FS only), whichever is applicable in your area. If SYSTEM is set to the wrong position, the sound will be distorted or noisy.



e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 1
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	1
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

- 3 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to move the cursor ($\blacktriangleright$) to NORMAL/CATV, then select NORM.
To preset CATV channels, select CATV.



e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 1
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	1
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

- 4 Press $\uparrow/\downarrow$ to move the cursor ($\blacktriangleright$) to AUTO PRESET, then press OK.
All receivable channels are preset in numerical sequence. When no more receivable channels can be found, presetting stops and the picture from the lowest numbered channel is displayed on the TV screen.



e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 1
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	1
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

Getting Started

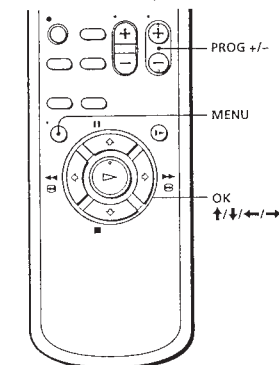
12 | Getting Started

continued

Getting Started | 13

Step 6: Presetting channels (continued)

Presetting channels manually



- 1 Press MENU, then press $\uparrow/\downarrow$ to move the cursor ($\blacktriangleright$) to TUNER PRESET and press OK.



e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 10
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	21
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

- 2 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to move the cursor ($\blacktriangleright$) to NORMAL/CATV, then select NORM.
To preset CATV channels, select CATV.



e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 10
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	21
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

- 3 Press $\uparrow/\downarrow$ to move the cursor ($\blacktriangleright$) to CHANNEL SET.



e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 10
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	21
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

- 4 Press PROG +/- to select the programme position.



Selected programme position

e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 3
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	21
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

- 5 Press $\rightarrow$ repeatedly until the channel you want is displayed.
Pressing $\leftarrow$ goes back to the previous channels.
The channels are scanned in the following order:



e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 14
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	25
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

Channel coverage	System B/G	System D/K	System I	System M (SLV-ED7FS only)
VHF	E2-E12	R1-R12	SA4-SA13	A2-A13
UHF	E21-E69	R21-R69	B21-B69	A14-A69
CATV (TV distribution)	S1-S41, S01-S05	-	S1-S41, S01-S05	A-8 to A-1, A to W, W+1 to W+84

If you know the number of the channel you want, press the programme number buttons. For example, for channel 5, first press "0" and then press "5."

- 6 If the TV sound is distorted or noisy, press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to move the cursor ($\blacktriangleright$) to SYSTEM, then select B/G, D/K or I (or M: SLV-ED7FS only) whichever is applicable in your area.



e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG 14
SYSTEM	B/G D/K I
NORMAL / CATV	NORM CATV
AUTO PRESET	
CHANNEL SET	25
AFT	ON OFF
FINE TUNING	
SELECT	[+/-]
SET	[+/-]

- 7 To allocate another channel to another programme position, repeat steps 4 and 5.



- 8 Press OK.



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continued

Getting Started | 15

Getting Started

Step 6: Presetting channels (continued)

Disabling unwanted programme positions

After tuning the TV channels, you can disable unused programme positions. The disabled positions will be skipped later when you press the PROG +/- buttons.

- 1 In step 5 above, press programme number button "0" twice to display the number "0" beside CHANNEL SET.
- 2 Press OK.

If the picture is not clear

Normally, the Auto Fine Tuning (AFT) function automatically tunes in channels clearly. If, however, the picture is not clear, you may also use the manual tuning function.

- 1 Press PROG +/- to select the programme number for which you cannot obtain a clear picture.
- 2 Press MENU, then select TUNER PRESET and press OK.
- 3 Select FINE TUNING. The fine tuning meter appears.

e.g. SLV-ED6ME/PS/SG

TUNER PRESET	PROG	Selected programme position
SYSTEM	B/G D/K I	
NORMAL/CATV	NORM CATV	
AUTO PRESET		
CHANNEL SET	35	
AFT	ON	
FINE TUNING	OFF	
SET	[←→]	

- 4 Press ←/→ to get a clearer picture, then press OK.
Note that the AFT (Auto Fine Tuning) setting switches to OFF.

Note

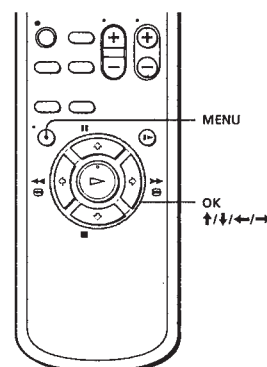
- The menu disappears automatically if you don't proceed for more than a few minutes.

Step 7 Setting the clock

You must set the time and date on the VCR to be able to use the timer recording features properly.

Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.



Getting Started

- 1 Press MENU, then press ↑/↓ to move the cursor (▶) to CLOCK SET and press OK.
CLOCK SET
1. 1998 TH 0:00
SELECT: [←→]
SET: [←→]
END: [OK]
- 2 Press ↑/↓ to set the date.
The day of the week is set automatically.
CLOCK SET
1. 1998 SU 0:00
SELECT: [←→]
SET: [←→]
END: [OK]
- 3 Press → to flash the month and set the month using ↑/↓.
CLOCK SET
25 1. 1998 FR 0:00
SELECT: [←→]
SET: [←→]
END: [OK]

continued

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Step 7: Setting the clock (continued)

- 4 Set the year, hour and minutes in sequence, using → to flash the item to be set, and ↑/↓ to select the digits.
CLOCK SET
25. 12. 1998 FR 15
SELECT: [←→]
SET: [←→]
END: [OK]
- 5 Press OK to start the clock.

Tip

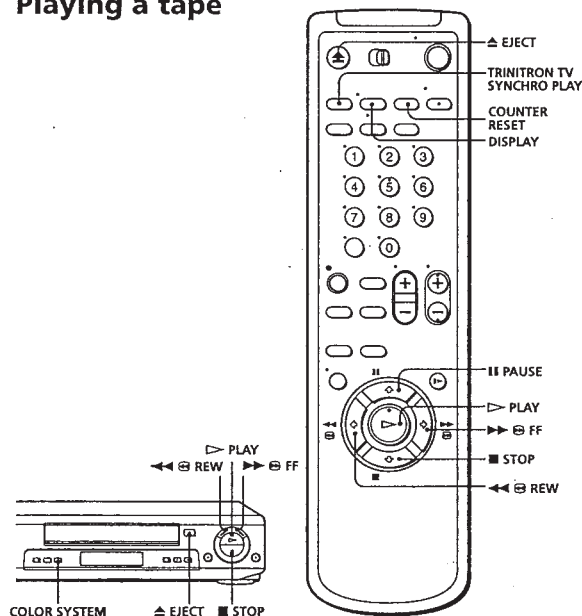
- To change the digits during setting, press ← to return to the item to be changed, and select the digits using ↑/↓.

Note

- The menu disappears automatically if you don't proceed for more than a few minutes.

Basic Operations

Playing a tape



- 1 Turn on your TV and set it to the video channel.
- 2 Insert a tape.
The VCR turns on and starts playing automatically if you insert a tape with its safety tab removed.



continued

Basic Operations

Basic Operations

18 | Getting Started

Playing a tape (continued)

3



Press **▷ PLAY**.

When the tape reaches the end, it will rewind automatically.

Additional tasks

To	Press
Stop play	■ STOP
Pause play	⏸ PAUSE
Resume play after pause	⏸ PAUSE or ▷ PLAY
Fast-forward the tape	⏭ FF during stop
Rewind the tape	⏮ REW during stop
Eject the tape	⏏ EJECT

To set the colour system

If streaks appear during playback, press **COLOR SYSTEM** on the VCR to conform to the system that the tape was recorded in. (Normally, the colour system is correctly set whenever the tape is inserted.)

If your tape was recorded in	Press COLOR SYSTEM until the indication below appears in the display window.
PAL	PAL
SECAM (SLV-ED7FS only)	PAL
MESECAM	PAL
NTSC	NTSC

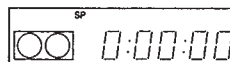
To play an NTSC-recorded tape

Set NTSC PB at the rear of the VCR according to the colour system of your TV.

If your TV is	Set NTSC PB to
PAL	ON PAL TV
NTSC 4.43	NTSC 4.43
NTSC 3.58	NTSC 3.58

To use the time counter

At the point on the tape that you want to find later, press **COUNTER RESET**. The counter in the display window resets to "0:00:00." Search for the point afterwards by referring to the counter.



To display the counter on the TV screen, press **DISPLAY**.

Notes

- The counter resets to "0:00:00" whenever a tape is reinserted.
- The counter stops counting when it comes to a portion with no recording.
- If a tape has portions recorded in both PAL and NTSC systems, the time counter reading will not be correct. This is due to the difference between the counting cycles of the two colour systems.
- Depending on your TV, the following may occur while playing an NTSC-recorded tape:
 - the picture is black and white
 - the picture shakes
 - no picture appears on the TV screen
 - black streaks appear horizontally on the TV screen
 - the colour density increases or decreases.
- Tapes recorded in the LP mode of NTSC system on other VCRs can be played back on this VCR, but the picture quality cannot be guaranteed.

continued

Playing a tape (continued)

Turning on the VCR and TV, and starting playback automatically (Trinitron TV Synchro Play)

You can only use this function if your TV is made by Sony (Trinitron TV).

How to connect to use this function

Connect the VCR and TV with the audio/video cable (see "To a TV that has audio/video input jacks" on page 7). Be sure to connect the audio/video cable to the VIDEO IN 1 jacks on the TV if the TV has two inputs or more. The TV must be placed where it will respond to the remote commander while you are pointing it at the VCR.

Operation

Make sure that the TV's power is in standby mode.

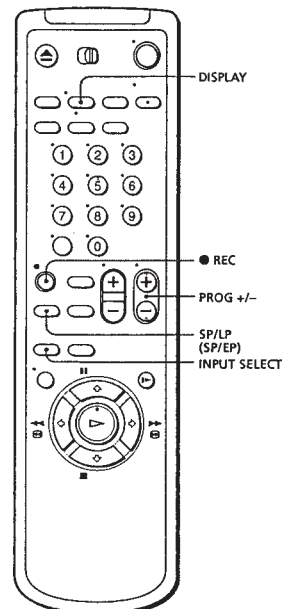
Press **TRINITRON TV SYNCHRO PLAY** and hold the remote commander in place for about two seconds.

The VCR and TV turn on, and the TV is set to VCR reception. If there is a tape in the VCR, playback starts automatically.

Notes

- If the Trinitron TV Synchro Play function does not work properly:
 - Wait a few moments, and press the button again.
 - Replace both of the batteries with new ones, and press the button again.
- Note that this function may not operate some Sony TVs because of the remote commander's signal limitations.
- Do not press **TRINITRON TV SYNCHRO PLAY** while playing back a video tape. If you do so, the TV's input source will momentarily switch to the TV's tuner.

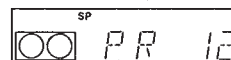
Recording TV programmes



1 Turn on your TV and set it to the video channel.

2 Insert a tape with its safety tab in place.

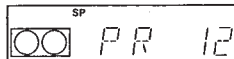
3 Press **PROG +/-** to select the programme position you want to record.



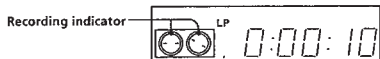
continued

Recording TV programmes (continued)

- 4  Press SP/LP (SP/EP) to select the tape speed, SP or LP. LP (Long Play) provides recording time twice as long as SP (Standard Play), however, SP produces better picture and audio quality.



- 5  Press **REC** to start recording. The recording indicator lights up red in the display window.

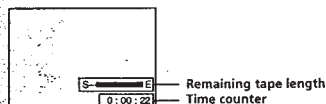


To stop recording

Press **STOP**.

To check the remaining tape length

Press **DISPLAY**. The white bar indicates the approximate length of tape remaining.



To watch another TV programme while recording

- 1 If the TV is connected to the VCR using an audio/video cable, set the TV to TV input. If the TV is connected to the VCR using only the aerial cable, skip this step.
- 2 Select another programme position on the TV.

To save a recording

To prevent accidental erasure, break off the safety tab as illustrated. To record on a tape again, cover the tab hole with adhesive tape.



To record NTSC colour system programmes

The SLV-ED7FS can record NTSC signals both from the VCR tuner and from the line input (LINE-1 IN, LINE-2 IN and LINE-3 IN jacks), and the SLV-ED6ME/PS/SG from the line input (LINE-1 IN, LINE-2 IN and LINE-3 IN jacks) only.

For tape speed, select SP or EP in step 4.

EP provides recording time three times as long as SP, however, SP produces better picture and audio quality.

When playing back, the VCR automatically detects the tape speed.

Tips

- To select a programme position, you can use the programme number buttons on the remote commander. For two-digit numbers, press the **10** (ten's digit) button followed by the programme number buttons.
- You can select a video source from the LINE-1 IN, LINE-2 IN or LINE-3 IN (SAT IN) jacks using **INPUT SELECT** or **PROG +/-**.
- The display appears on the TV screen indicating information about the tape, but the information won't be recorded on the tape.
- If you don't want to watch TV while recording, you can turn off the TV.

Notes

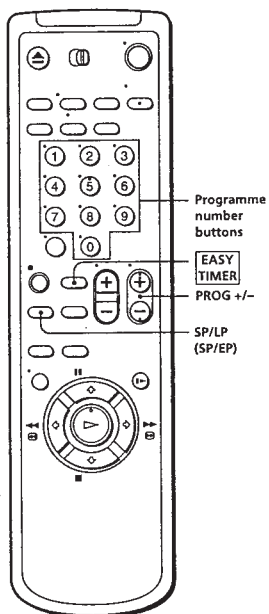
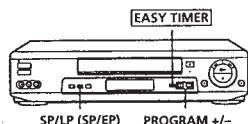
- The display does not appear during still (pause) mode or slow-motion playback.
- It may take up to one minute for the VCR to calculate and display the remaining tape length after you press **DISPLAY**.

Recording TV programmes using the easy timer

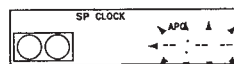
You can record one programme on the same day (within 24 hours) with the easy timer. If the VCR clock has not been set due to power interruption, etc., you can set the clock and timer recording.

Before you start...

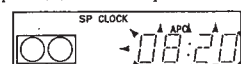
- Insert a tape with its safety tab in place. Make sure the tape is longer than the recording time.
- If you want to see the setting on the TV screen, turn on the TV and set it to video channel.



- 1  Press **EASY TIMER**. The **CLOCK** indicator appears and the current time flashes in the display window. If the clock has not been set yet or has been cleared, **---** flashes.



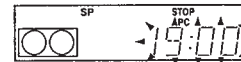
- 2  Set the current time, if necessary, using **PROG +/-** or the programme number buttons. If the clock has already been set correctly, skip this step.
- Press **PROG +/-** to increase or decrease the time by a minute. Holding down **PROG +/-** changes the time by 15 minutes.
 - Press the number buttons to enter hours and minutes. To set the clock to "8:20", for example, press 0, 8, 2 and 0 in sequence.



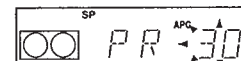
- 3  Press **EASY TIMER** to confirm the clock setting. The **START** indicator appears.



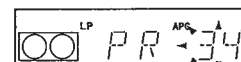
- 4  Set the recording start time using **PROG +/-** or the programme number buttons in the same way as in step 2, then press **EASY TIMER**. The **STOP** indicator appears.



- 5  Set the recording stop time in the same way as in step 2, then press **EASY TIMER**. A programme number flashes.



- 6  Press **PROG +/-** or the programme number buttons to select the programme you want to record. To select the tape speed, press **SP/LP (SP/EP)**.



- 7  Press **EASY TIMER** to confirm the setting. The **Ⓢ** indicator appears in the display window and the VCR stands by for recording.



continued

Recording TV programmes using the easy timer (continued)

To stop recording

To stop the VCR while recording, press ■ STOP.

To check or change the timer setting

Press **EASY TIMER** repeatedly until the setting you want to check or change flashes. Then re-enter the new setting, if necessary. You can also change the timer setting using the **TIMER SET/CHECK** menu. For details, see page 34.

To use the VCR after setting the timer

To use the VCR before a timer recording begins, just press **ON/STANDBY**. The **Ⓢ** indicator turns off and the VCR switches on. Remember to press **ON/STANDBY** to reset the VCR after using the VCR.

You can also do the following tasks while the VCR is recording:

- Reset the counter.
- Display tape information on the TV screen.
- Check the timer settings.
- Watch another TV programme.

Tips

- If you make a mistake when entering the time with the programme number buttons, complete entering the four digits, then re-enter the time. Then press **EASY TIMER** to confirm the setting.
- To record from a source connected to **LINE-1 IN**, **LINE-2 IN** or **LINE-3 IN** (SAT IN) jacks, press **INPUT SELECT** or **PROG +/-** to display "L1", "L2" or "L3" in the display window.
- To record NTSC signals, set the tape speed to **SP** or **EP**. To set to the **EP** mode, display "LP" in the display window.
- To cancel the easy timer setting, press **CLEAR** on the remote commander or press **PROG +** and **-** on the VCR at the same time during the setting.

Notes

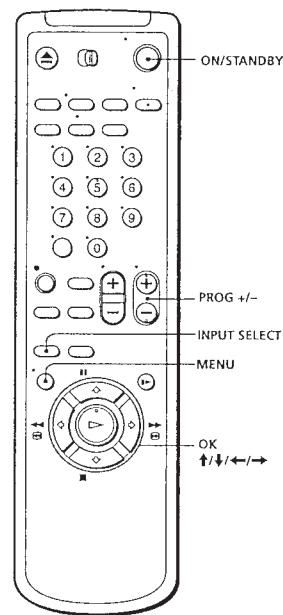
- You cannot set the easy timer if eight programmes have already been set.
- You can set the timer for only one programme using the easy timer. If you want to set the timer for other programmes, use the **TIMER SET/CHECK** menu. For details, see page 34.
- You cannot set the date using the easy timer. Set the date using the **CLOCK SET** menu if you want to set the timer with the menu. For details, see page 17.
- The **Ⓢ** indicator flashes in the display window when you set the timer with no tape inserted.

Setting the timer manually

You can preset up to eight programmes at a time.

Before you start...

- Check that the VCR clock is set to the correct time.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- Turn on your TV and set it to the video channel.



1 • MENU



Press **MENU** and select **TIMER SET/CHECK**, then press **OK**.

TIMER SET/CHECK	25.12.FR
DATE	START STOP PROG
---	---
---	---
---	---
---	---
---	---
---	---
---	---
---	---

continued

Setting the timer manually (continued)

2



Set the date, start and stop times, programme position, and tape speed:

- 1 Press **→** to flash each item in turn.
- 2 Press **↑/↓** to set each item.

To correct a setting, press **←** to return to that setting and reset.

To record the same programme every day or the same day every week, press **↓** while the date is flashing. For details, see "Daily/weekly recording" on page 31.

To record from a source connected to the **LINE-1 IN**, **LINE-2 IN** or **LINE-3 IN** (SAT IN) jacks; press **INPUT SELECT** or **PROG +/-** to display "L1", "L2" or "L3" in the "PROG" position.

TIMER SET/CHECK	25.12.FR
DATE	START STOP PROG
---	---
---	---
---	---
---	---
---	---
---	---
---	---
---	---

3



Press **→** to confirm the setting.

The cursor (▶) appears at the beginning of the line. To enter another setting, move the cursor to the next line and repeat step 2.

4



Press **OK**.

5



Press **ON/STANDBY** to turn off the VCR.

The **Ⓢ** indicator appears in the display window and the VCR stands by for recording.

To record from other equipment, leave the connected equipment switched on.

To stop recording

To stop the VCR while recording, press ■ STOP.

Daily/weekly recording

In step 2 above, press **↓** to select the recording pattern. Each time you press **↓**, the indication changes as shown below. Press **↑** to change the indication in reverse order.

the current date → **SU-SA** → **MO-SA** → **MO-FR** → **EVERY SA**
→ **EVERY MO** → **EVERY SU** → 1 month later → (dates count down)
→ the current date

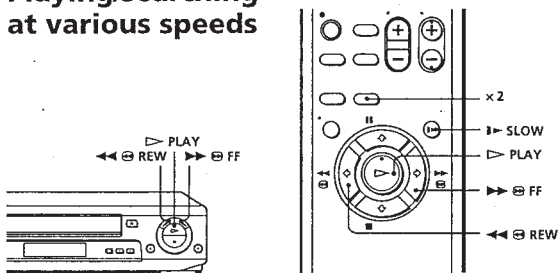
Tips

- To set the programme position, you can also use the **PROG +/-** or programme number buttons.
- To set the tape speed, you can also use **SP/LP** (**SP/EP**).
- To record NTSC signals, set the tape speed to **SP** or **EP**. To set the **EP** mode, display "LP" in the tape speed position.

Note

- The **Ⓢ** indicator flashes in the display window when you press **ON/STANDBY** with no tape inserted.

Playing/searching at various speeds



Playback options	Operation
View the picture during fast-forward or rewind	During fast-forward, hold FF down. During rewind, hold REW down.
Play at high speed	- During playback, press FF or REW. - During playback, hold FF or REW down. When you release the button, normal playback resumes.
Play at twice the normal speed	During playback or pause, press x2 .
Play in slow motion	During playback or pause, press SLOW .
Play frame by frame	During pause, press FF or REW . Hold the button down to play one frame each second.
Rewind and start play	During stop, press PLAY on the VCR while holding REW down on the VCR.

To resume normal playback

Press **PLAY**.

Tips

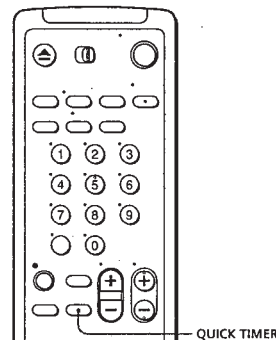
- Adjust the picture using **TRACKING +/-** on the VCR if:
 - streaks appear while playing in slow motion.
 - bands appear at the top or bottom while pausing.
 - the picture shakes while pausing.
- To set tracking to the centre position, press both buttons (**+/-**) at the same time.

Notes

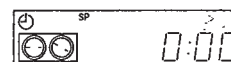
- The playback sound is muted during these operations.
- In LP or EP mode, noise may appear or there may be no colour.
- The picture may have snow when playing at high speed in reverse.

Recording TV programmes using the quick timer

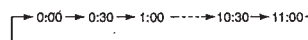
After starting recording in the normal way, you can have the VCR stop recording automatically after a specified duration.



- While recording, press **QUICK TIMER** once.
The **Q** indicator appears in the display window.



- Press **QUICK TIMER** repeatedly to set the duration.
Each press advances the time in increments of 30 minutes.



The duration decreases minute by minute to 0:00, then the VCR stops recording and turns off automatically.

To extend the duration

Press **QUICK TIMER** repeatedly to set to the new duration.

To stop recording

To stop the VCR while recording, press **STOP**.

Using the quick timer during stop mode

You can set the quick timer and start recording during stop mode by pressing **QUICK TIMER**. To set the channel, you can use the **PROG +/-** or **INPUT SELECT** buttons. Press **QUICK TIMER** repeatedly to set the recording duration. The recording will start automatically.

- Press **↑/↓** to select the setting you want to change or cancel:

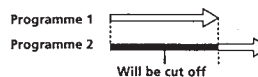
- To change the setting, press **←/→** to flash the item you want to change, and press **↑/↓** to re-set it. Then, press **→** repeatedly until the cursor (**▶**) appears at the beginning of the line.
- To cancel the setting, press **CLEAR**.

- Press **OK**.

If any timer settings remain, turn off the VCR to return to recording standby.

When the timer settings overlap

The programme that starts first has priority and the second programme starts recording only after the first programme has finished. If the programmes start at the same time, the programme listed first in the menu has priority.



- Press **ON/STANDBY** to turn on the VCR.
- Press **MENU**, then select **TIMER SET/CHECK**:

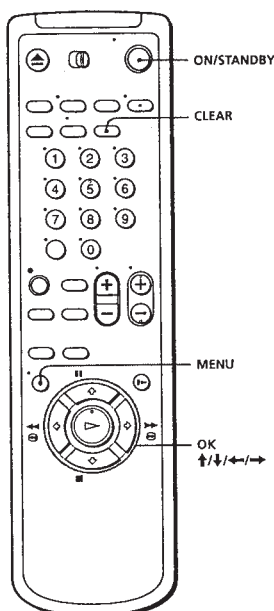
- If you want to change a setting, go on to the next step.
- If you do not need to change the settings, press **OK**, then turn off the VCR to return to recording standby.

TIMER SET / CHECK	05.12	FR
DATE	START	STOP
▶ 8.1WE	7:00	8:00 6 IF
8.1FR	21:00	0:00 5G IF
MO-SA	0:12	13:00 27 IF
END SU	23:00	0:00 12 IF
---	---	---
---	---	---
---	---	---
---	---	---

Checking/ changing/ cancelling timer settings

Before you start...

- Turn on your TV and set it to the video channel.

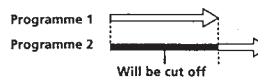


- Press **↑/↓** to select the setting you want to change or cancel:
 - To change the setting, press **←/→** to flash the item you want to change, and press **↑/↓** to re-set it. Then, press **→** repeatedly until the cursor (**▶**) appears at the beginning of the line.
 - To cancel the setting, press **CLEAR**.
- Press **OK**.

If any timer settings remain, turn off the VCR to return to recording standby.

When the timer settings overlap

The programme that starts first has priority and the second programme starts recording only after the first programme has finished. If the programmes start at the same time, the programme listed first in the menu has priority.



Recording stereo and bilingual programmes

The VCR can record stereo and bilingual programmes only through the line input. When a stereo or bilingual sound is input through the line input, "STEREO" appears on the screen and the display window. You cannot select the sound while recording.

Selecting the sound while playing

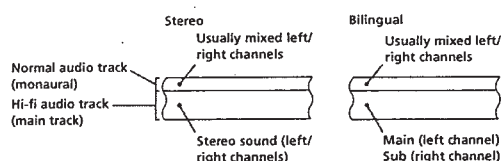
Press AUDIO MONITOR to select the sound you want.

To listen to	On-screen display	Display window
Stereo/main and sub (left and right channels)	STEREO	STEREO
Left channel/main	LCH	STEREO
Right channel/sub	RCH	STEREO
Standard sound*	No indicator	No indicator

* The mixed sound of left and right channels (monaural)

How sound is recorded on a video tape

The VCR records sounds onto two separate tracks. Hi-fi audio is recorded onto the main track along with the picture. Monaural sound is recorded onto the normal audio track along the edge of the tape.



Notes

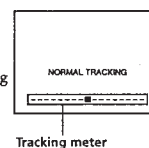
- To listen to playback sounds in stereo, you must use the AUDIO OUT connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO MONITOR setting.
- If the AUDIO MONITOR button does not function, check that AUDIO MIX in the SET UP MENU is set to OFF.

Adjusting the picture

Adjusting the tracking

Although the VCR automatically adjusts the tracking when playing a tape (the  indicator flashes in the display window, then goes off), distortion may occur if the tape was recorded in poor condition. If so, manually adjust the tracking.

Press the TRACKING +/- buttons on the VCR to display the tracking meter. The distortion should disappear as you press one of the two buttons (The  indicator lights up). To resume automatic tracking adjustment, eject the tape and reinsert it.



About Adaptive Picture Control (APC)

Adaptive Picture Control (APC) automatically improves recording and playback quality by adjusting the VCR to the condition of the video heads and tape. To maintain better picture quality, we recommend that you set APC to ON in the SET UP MENU (with the APC indicator in the display window lit).

e.g. SLV-ED6ME/PS/SG

SET UP MENU	
AUDIO MIX	ON - OFF
APC	ON - OFF
PAL/MESECAM	AUTO PAL MESECAM
SELECT	[+/-]
SET	[+/-]

APC playback

The APC function automatically works on all types of tapes, including rental tapes and tapes that were not recorded with APC.

APC recording

Whenever you insert a tape and first start recording, the VCR adjusts to the tape using the APC function (the APC indicator flashes rapidly). This adjustment is retained until the tape is ejected.

To deactivate the APC

Press MENU and select SET UP MENU, then set APC to OFF. The APC indicator in the display window goes off.

Note

- There is a delay of a few seconds before the VCR actually starts recording while the VCR analyses the tape. To avoid the delay, first set the VCR to recording pause (the APC indicator flashes slowly) and press  REC to have the VCR analyse the tape (the APC indicator flashes rapidly). After the APC indicator stops flashing, press  PAUSE to start recording immediately. If you press  PAUSE before the APC indicator stops flashing, the APC function is cancelled.

Changing menu options

- Press MENU, then select SET UP MENU.

e.g. SLV-ED6ME/PS/SG

SET UP MENU	
AUDIO MIX	ON - OFF
APC	ON - OFF
PAL/MESECAM	AUTO PAL MESECAM
SELECT	[+/-]
SET	[+/-]

- Press  to select the option to change, then press  to change the setting.
- Press OK to return to the original screen.

Menu choices

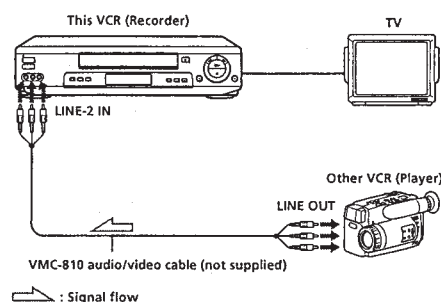
Initial settings are indicated in bold print.

Menu option	Set this option to
AUDIO MIX	ON to listen to the hi-fi and normal audio tracks at the same time. The AUDIO MONITOR button will not function. OFF to listen to hi-fi and normal audio tracks separately. Select the sound using the AUDIO MONITOR button.
APC	ON to switch on the APC (Adaptive Picture Control) function and improve picture quality. OFF to switch off APC.
PAL/MESECAM (SLV-ED6ME/PS/SG)	AUTO to have the VCR automatically select the colour system for recording and playback. If the picture has no colour or unusual colours, set to PAL or MESECAM (SECAM) according to your local colour system.
PAL/SECAM (SLV-ED7FS only)	SECAM or MESECAM to select the colour system when you record SECAM or MESECAM colour signals. (This setting has no effect when recording PAL or NTSC colour signals.)

Editing

Connecting to a VCR or stereo system

How to connect to record on this VCR



How to connect to a stereo system

Connect LINE-2 IN AUDIO on this VCR to the audio output jacks on the stereo system, using the RK-CS10KS audio cable (not supplied).

Notes

- Make sure you connect the plugs to jacks of the same colour.
- If you connected this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.

Tips

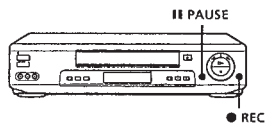
- If the other VCR is a monaural type and connected to this VCR'S LINE-2 IN jacks, connect the audio plug to the AUDIO L (white) jack. The sound is recorded on both right and left channels. When connecting to the AUDIO R (red) jack, the sound is recorded only on the right channel.
- You can also use the LINE-1 IN or LINE-3 IN (SAT IN) jacks instead. If the other VCR is a monaural type, the sound is recorded only on the channel whose jack is connected to the audio plugs. To record on both right and left channels, connect the audio plugs to the AUDIO R/L jacks using a VMC-910MS audio/video cable (not supplied).

Basic editing

(when recording on this VCR)

Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT or PROG +/- to display "L1", "L2" or "L3" in the display window.
- Press SP/LP (SP/EP) to select the tape speed (SP or LP for the PAL system, and SP or EP for the NTSC system).



- 1 Insert a source tape with its safety tab removed into the other (playback) VCR. Search for the point to start playback and set it to playback pause.
- 2 Insert a tape with its safety tab in place into this (recording) VCR. Search for the point to start recording and press II PAUSE.
- 3 Press ● REC on this VCR and set it to recording pause.
- 4 To start editing, press the II PAUSE buttons on both VCRs at the same time.

To stop editing

Press the ■ STOP buttons on both VCRs.

Tips

- To edit more precisely, press the II PAUSE buttons on the VCRs to release pause.
- To cut out unwanted scenes while editing, press II PAUSE on this VCR when an unwanted scene begins. When it ends, press II PAUSE again to resume recording.

Note

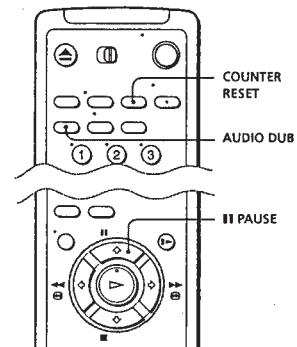
- If you start recording following the procedure above, the VCR won't start recording with the APC function. To record a tape with the APC function, press ● REC again during recording pause in step 3 so that the VCR analyses the tape. Then when you start recording in step 4, press II PAUSE after the APC indicator stops flashing. If you press II PAUSE before the APC indicator stops flashing, the APC function is cancelled.

Audio dubbing

This feature lets you record over the normal audio track. The monaural sound previously recorded is placed while the original hi-fi sound remains unchanged. Use this feature to add commentary to a tape that you have recorded with a camcorder.

Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT or PROG +/- to display "L1", "L2" or "L3" in the display window.



- 1 Insert a source tape into the stereo system (or the playback VCR). Search for the point to start playback and set it to playback pause.
- 2 Insert a prerecorded tape into this (recording) VCR. Search for the end of the section to be replaced and press II PAUSE. Make sure that the tape has its safety tab in place.
- 3 Press COUNTER RESET on this remote commander to reset the counter to "0:00:00."
- 4 Rewind the prerecorded tape to the beginning of the section to be replaced.
- 5 The VCR pauses.
Press AUDIO DUB.
The ⊖ indicator appears in the display window.
- 6 To start editing, press the II PAUSE buttons on this VCR and the stereo system (or other VCR) at the same time.
When the counter reaches "0:00:00" audio dubbing stops automatically.

To stop while editing

Press the ■ STOP buttons on this VCR and the stereo system (or other VCR).

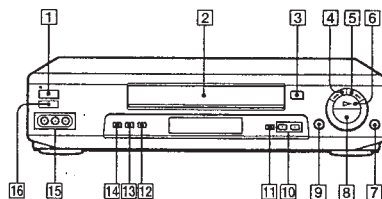
To listen to both the hi-fi and normal audio

Set AUDIO MIX to ON in the SET UP MENU (page 38). Use this feature to listen to dubbed audio over the original hi-fi audio. When AUDIO MIX is set to ON, the AUDIO MONITOR button does not function. Remember to reset AUDIO MIX to OFF after playing the tape.

Index to parts and controls

Refer to the pages indicated in parentheses () for details.

Front panel

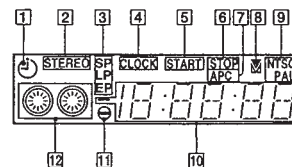


- | | |
|-------------------------------------|--|
| 1 ON/STANDBY switch/indicator (8) | 9 II PAUSE button (20) |
| 2 Tape compartment | 10 PROGRAM/TRACKING +/- buttons (24, 37) |
| 3 EJECT button (20) | 11 EASY TIMER button (26) |
| 4 REW (rewind) button (20, 32) | 12 COLOR SYSTEM button (20) |
| 5 FF (fast-forward) button (20, 32) | 13 SP (Standard Play)/LP (Long Play)/EP (Extra Play) button (24) |
| 6 PLAY button (20) | 14 ONE TOUCH TUNING/RF (Radio Frequency) CHANNEL button (8, 11) |
| 7 ● REC (record) button (24) | 15 LINE-2 IN VIDEO AUDIO R/L jacks (39) |
| 8 ■ STOP button (20) | 16 Remote sensor (5) |

continued

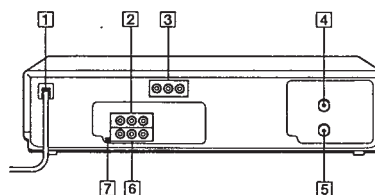
Index to parts and controls (continued)

Display window



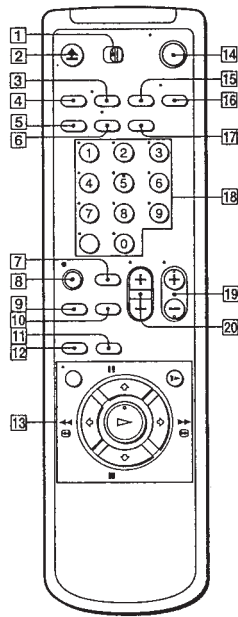
- | | |
|---|--|
| 1 Timer indicator (27) | 8 Tracking indicator (37) |
| 2 STEREO indicator (36) | 9 Colour system indicator (20) |
| 3 Tape speed indicator (24) | 10 Time counter/clock/line/programme/TV system indicator (8, 21, 23, 40) |
| 4 CLOCK indicator (26) | 11 Audio dub indicator (41) |
| 5 START indicator (27) | 12 Tape/recording indicator (24) |
| 6 STOP indicator (27) | |
| 7 APC (Adaptive Picture Control) indicator (37) | |

Rear panel



- | | |
|--|--------------------------------------|
| 1 Mains lead (6) | 4 AERIAL IN connector (6) |
| 2 LINE-1 IN AUDIO R/L/VIDEO jacks (39) | 5 AERIAL OUT connector (6) |
| 3 LINE-3 IN (SAT IN) AUDIO R/L/VIDEO jacks (7) | 6 LINE OUT AUDIO R/L/VIDEO jacks (7) |
| | 7 NTSC PB (playback) switch (20) |

Remote commander

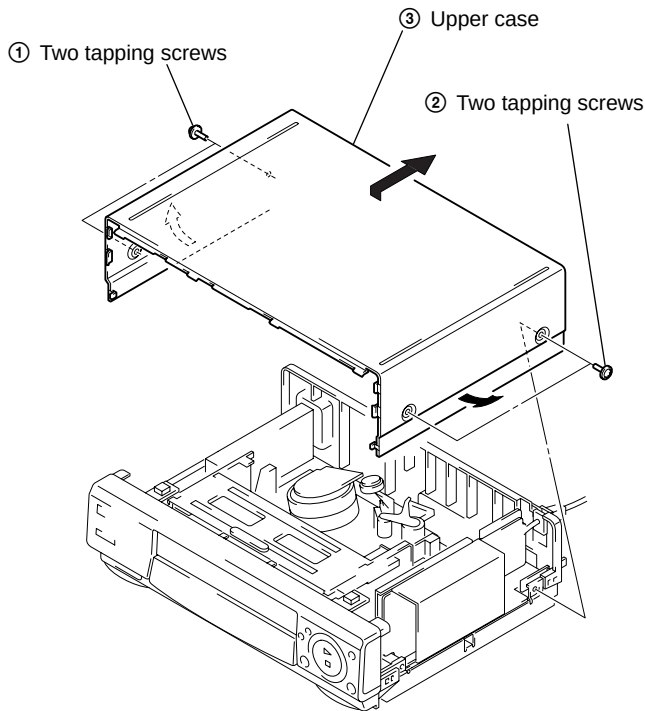


- 1 TV / VIDEO remote control switch (5)
- 2 EJECT button (20)
- 3 DISPLAY button (24)
- 4 TRINITRON TV SYNCHRO PLAY button (22)
- 5 AUDIO DUB button (41)
- 6 TV/VIDEO button (for TV) (5)
- 7 EASY TIMER button (26)
- 8 REC button (24)
- 9 SP (Standard Play)/LP (Long Play)/EP (Extra Play) button (24)
- 10 QUICK TIMER button (33)
- 11 x2 button (32)
- 12 INPUT SELECT button (25)
- 13 Tape/menu operation buttons
 - MENU button (10, 38)
 - PAUSE/ button (20)
 - STOP/ button (20)
 - REW (rewind)/ button (20, 32)
 - FF (fast-forward)/ button (20, 32)
 - PLAY/OK button (20)
 - SLOW button (32)
- 14 ON/STANDBY button (30)
- 15 COUNTER RESET buttons (21)
- 16 AUDIO MONITOR button (36)
- 17 CLEAR button (35)
- 18 Programme number /-/- (ten's digit) buttons (27)
- 19 PROG (programme) +/- buttons (23)
- 20 VOL (volume) +/- buttons (for TV)

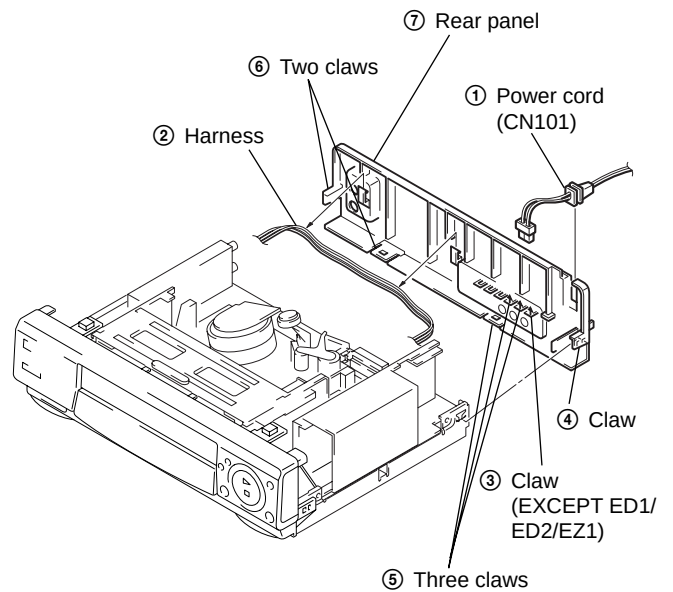
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

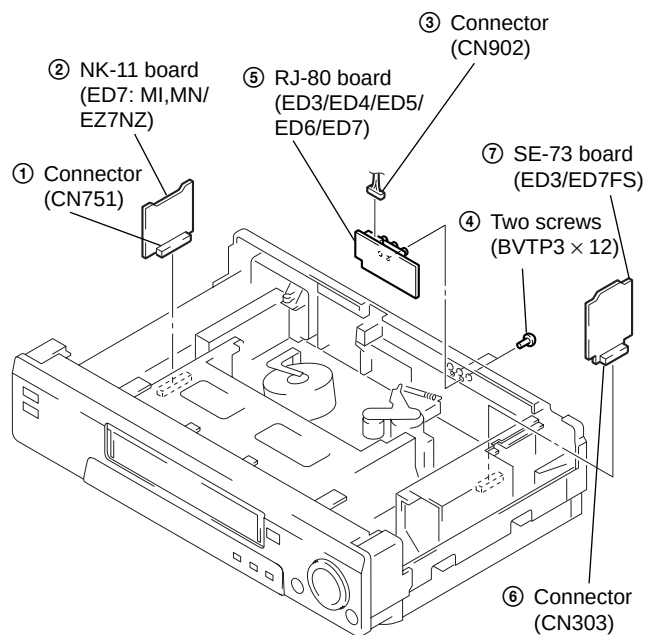
2-1. UPPER CASE REMOVAL



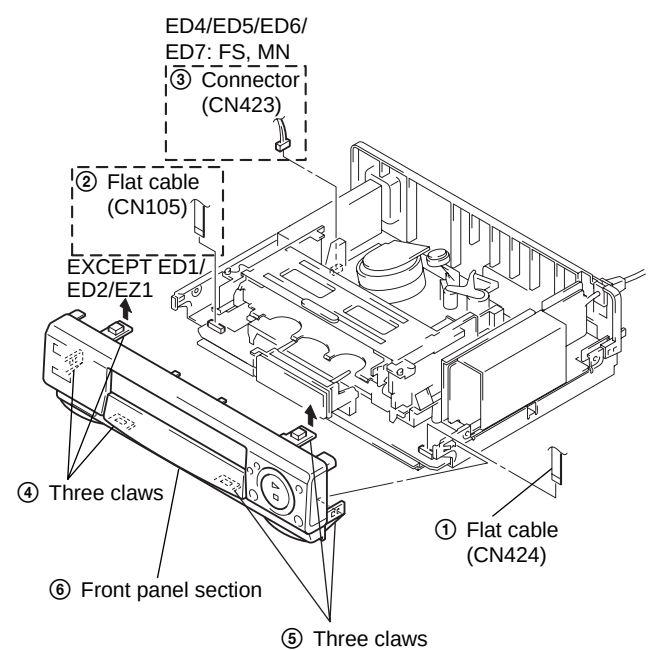
2-3. REAR PANEL REMOVAL



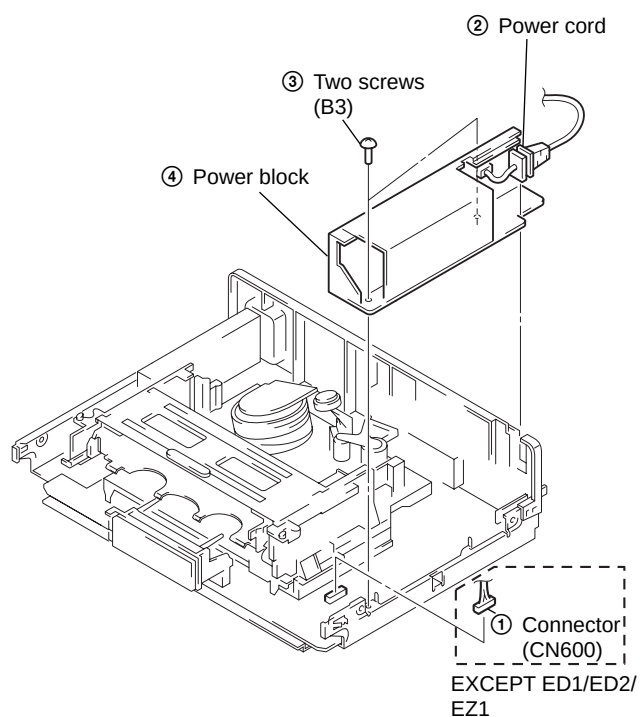
2-2. NK-11, RJ-80, SE-73 BOARD REMOVAL



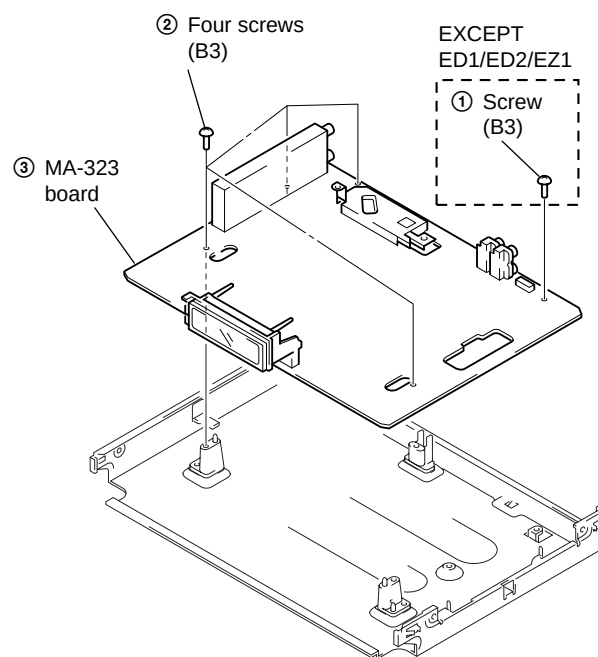
2-4. FRONT PANEL SECTION REMOVAL



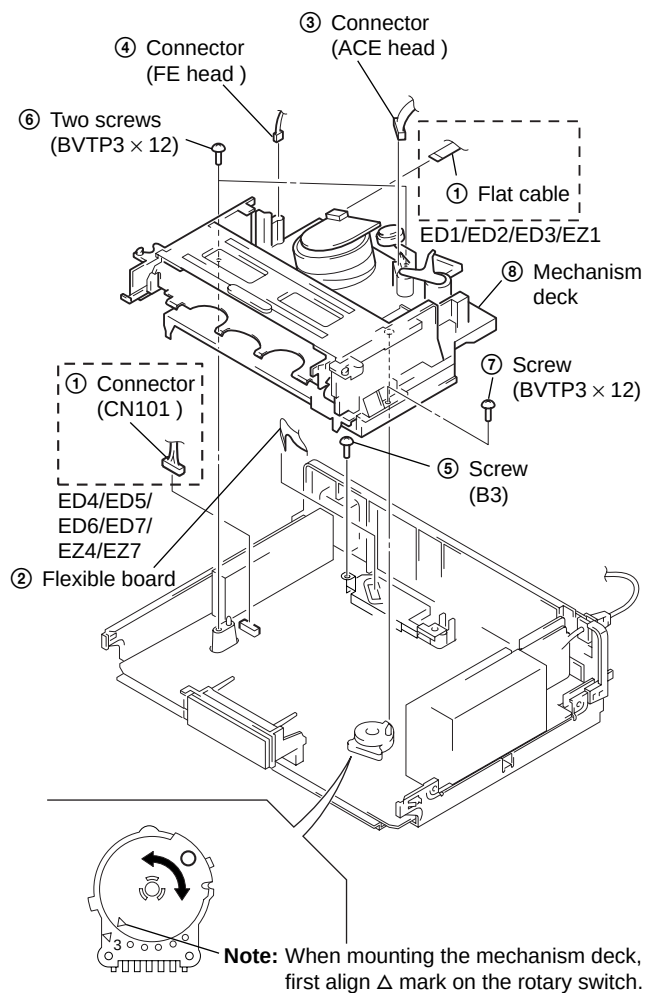
2-5. POWER BLOCK REMOVAL



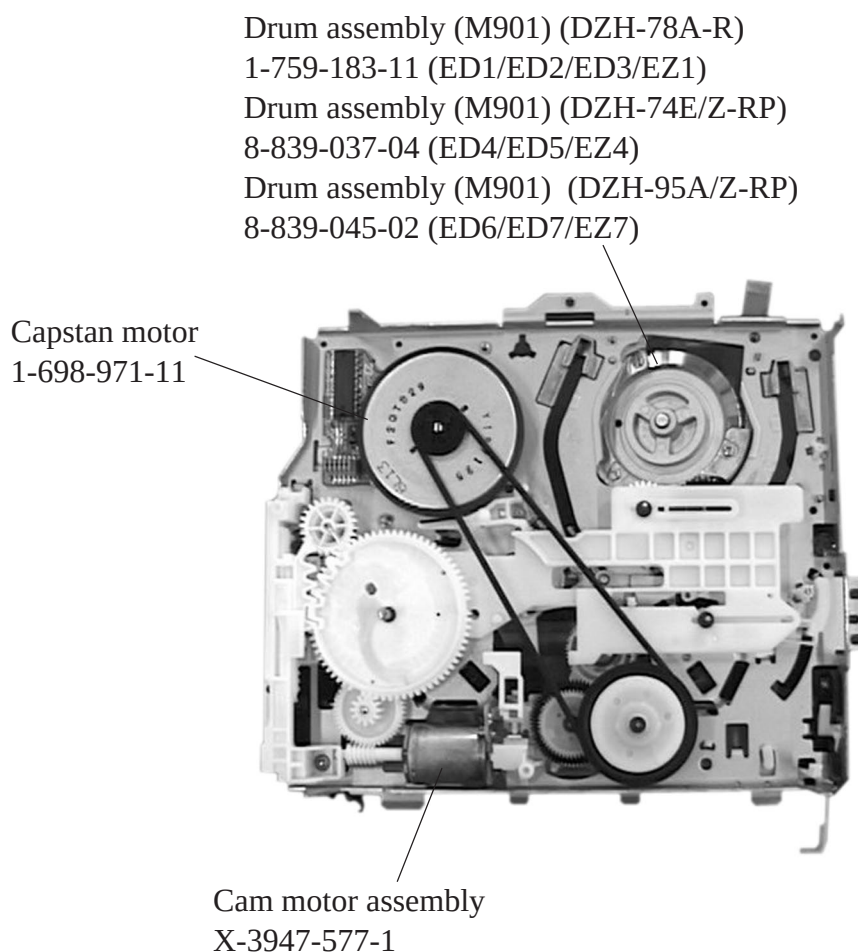
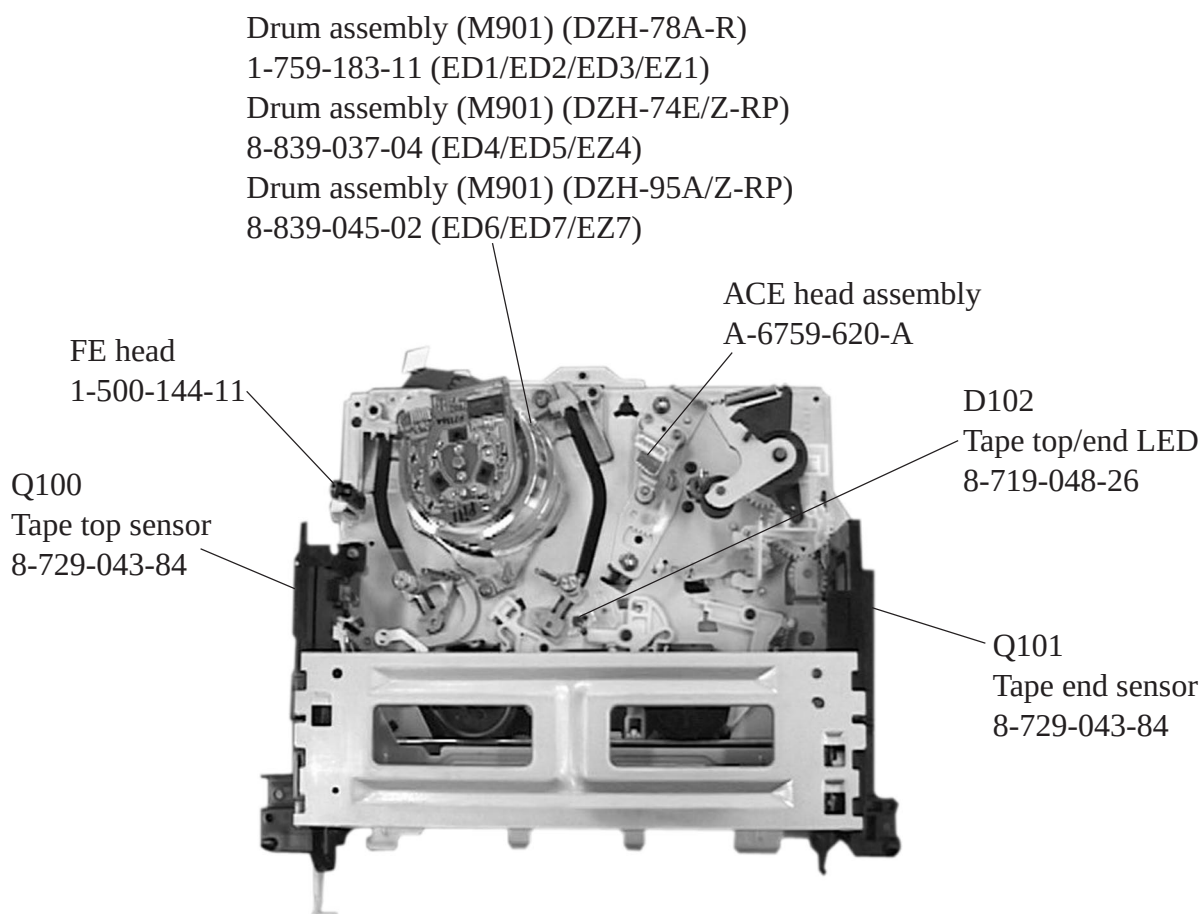
2-7. MA-323 BOARD REMOVAL



2-6. MECHANISM DECK REMOVAL



2-8. INTERNAL VIEWS



2-9. CIRCUIT BOARDS LOCATION

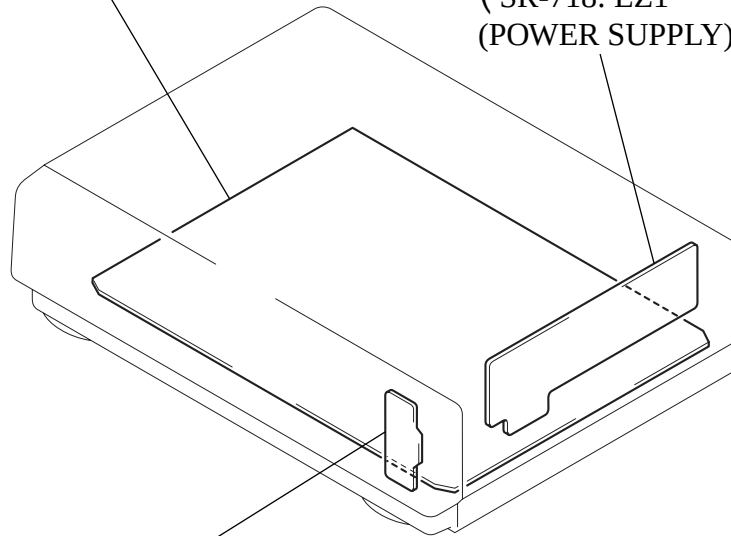
ED1/ED2/EZ1

MA-323

(VIDEO, AUDIO, I/O,
SERVO/SYSTEM CONTROL, TUNER)

POWER BLOCK

(HS-921SF: ED1/ED2)
(SR-718: EZ1
(POWER SUPPLY)



DS-80
(MODE CONTROL)

EXCEPT ED1/ED2/EZ1

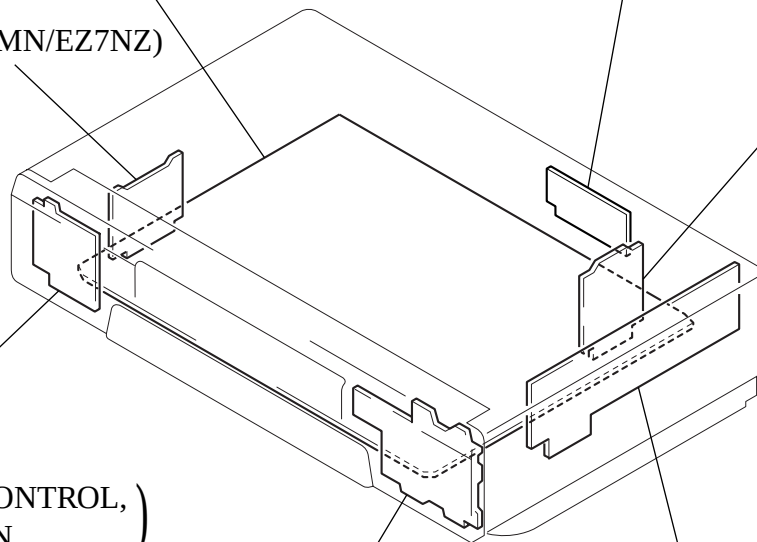
MA-323

(VIDEO, AUDIO, I/O,
SERVO/SYSTEM CONTROL, TUNER)

RJ-80 (EXCEPT EZ4/EZ7)
(ADDITIONAL REAR IN)

NK-11 (ED7: MI, MN/EZ7NZ)
(NICAM)

SE-73 (ED3/ED7FS)
(SECAM)



MF-312
(MODE CONTROL,
FRONT IN)

DM-76
(MODE CONTROL)

POWER BLOCK
(HS-921SF1: ED3/ED4/ED5/ED6)
(SR-708: ED7/EZ4/EZ7
(POWER SUPPLY)

SECTION 5
INTERFACE, IC PIN FUNCTION DESCRIPTION

5-1. SYSTEM CONTROL – VIDEO BLOCK INTERFACE (MA-323 BOARD IC161)

Signal	Pin No.	I/O	STOP/FF/REW	TAPE THREAD-ING	TAPE UNTHREAD-ING	PB	REC• PAUSE	SLOW	×2	CUE	REVIEW	REC	REC• PAUSE
RF SWP (SW30)	MA-323 IC161②	O	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
QVD	MA-323 IC161⑦	O	L	L	L	*2	*3	*3	*3	*3	*3	L	L
C SYNC	MA-323 IC161⑥	I	*4	*4	*4	*4	*4	*4	*4	*4	*4	*4	*4

*1. 25 Hz pulse with 50% duty cycle. Synchronized with rotation of drum.
*2. Normal PB "L". V period "H" pulse when ×1.
*3. V period "H" pulse.
*4. Composite Sync signal (positive polarity).

5-2. SYSTEM CONTROL – SERVO PERIPHERAL CIRCUIT INTERFACE (MA-323 BOARD IC161)

Signal	Pin No.	I/O	STOP	FF	REW	TAPE THREAD-ING	TAPE UNTHREAD-ING	PB	PB• PAUSE	SLOW	×2	CUE	REVIEW	REC	REC• PAUSE
CAP QR	MA-323 IC161⑨	O	Hi-Z	Hi-Z	Hi-Z	Hi-Z	Hi-Z	Hi-Z	Hi-Z	*2	Hi-Z	Hi-Z	Hi-Z	Hi-Z	Hi-Z
DRM PG	MA-323 IC161③	I	*3	*1	*1	*4	*4	*1	*1	*1	*1	*1	*1	*1	*1
DRM FG	MA-323 IC161⑧	I	*3	*6	*6	*4	*4	*6	*6	*6	*6	*6	*6	*6	*6
CAP FG	MA-323 IC161④	I	H/L	*5	*5	*4	*4	*5	H/L	*5	*5	*5	*5	*5	H/L
CAP VS	MA-323 IC161⑤	O	*7	*7	*7	*7	*7	*8	*7	*7	*8	*8	*8	*8	*7
DRM VS	MA-323 IC161⑥	O	*9	*9	*9	*9	*9	*9	*9	*9	*9	*9	*9	*9	*9

*1. 25 Hz (PAL), 30 Hz (NTSC) pulse.
*2. Pulse at tape running.
*3. "L" when drum rotation stop.
*4. Unstable period pulse.
*5. Pulse of period in proportion to tape speed.
*6. 300 Hz (PAL), 360 Hz (NTSC) pulse.
*7. Pulse at tape running.
*8. Approx. 2 msec period "H" or "L" pulse.
*9. Approx. 1.5 msec period "H" or "L" pulse.

5-3. SYSTEM CONTROL – MECHANISM BLOCK INTERFACE (MA-323 BOARD IC161)

Signal	Pin No.	I/O	EJECTED	CASSETTE LOADING	CASSETTE UNLOADING	TAPE THREAD- ING	TAPE UNTHREAD- ING	STOP	FF	REW	PB	PB • PAUSE	SLOW	× 2	CUE	REVIEW	REC	REC • PAUSE
CAM	MA-323 IC161⑥	O	Hi-Z	H	L	H	L	*7	*7	*7	*7	*7	*7	*7	*7	*7	*7	*7
	MA-323 IC161⑥	I	H	L	L	*1	*1	H	H	H	H	H	H	H	H	L	H	H
MODE 2	MA-323 IC161⑥	I	H	L	L	*1	*1	H	H	H	L	L	L	L	L	L	L	L
	MA-323 IC161⑥	I	L	L	L	*1	*1	H	L	L	L	L	L	L	L	H	L	L
MODE 4	MA-323 IC161⑥	I	L	H	H	*1	*1	L	H	H	L	L	L	L	L	L	L	L
	MA-323 IC161⑥	I	H	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
T REEL FG	MA-323 IC161⑥	I	H/L	H/L	H/L	H/L	H/L	H/L	*3	*3	*3	H/L	*3	*3	*3	*3	*3	H/L
	MA-323 IC161⑥	I	H/L	H/L	H/L	*3	*3	H/L	*3	*3	*3	H/L	*3	*3	*3	*3	*3	H/L
T/S LED	MA-323 IC161⑦	O (O.D)	*4	*4	*4	*4	*4	*4	*4	*4	*4	*4	*4	*4	*4	*4	*4	*4
	MA-323 IC161⑧	I	L			H	L	H/L	H	L	H	H	H	H	H	L	H	H
T SENS	MA-323 IC161⑩	I	*4	*4	*4	*6	*6	*6	*6	*6	*6	*6	*6	*6	*6	*6	*6	*6
	MA-323 IC161⑩	I	*4	*4	*4	*6	*6	*6	*6	*6	*6	*6	*6	*6	*6	*6	*6	*6

*1. Uncertainty.

*2. "L" when erasing protection tab is bent. "H" when not bent.

*3. Pulse of period in proportion to reel rotating speed.

*4. Approx. 2 msec period "H" pulse.

*5. Pulse at tape running.

*6. Normally "L". 2 msec period "H" pulse when tape top or tape end is detected.

*7. When transition to UNLOADING direction: L.
When transition to LOADING direction: H.
When CAM motor is stopped: Hi-Z.

5-4. SYSTEM CONTROL – AUDIO BLOCK INTERFACE (MA-323 BOARD IC161)

Signal	Pin No.	I/O	STOPI/ FF/ REW	TAPE LOADING	TAPE UNLOADING	PB	PB • PAUSE	SLOW	× 2	CUE	REVIEW	REC	PB • PAUSE
AU RF	MA-323 IC161⑩	I	AF RF envelope signal input terminal for automatic tracking.										
A MUTE	MA-323 IC161⑦	O (O.D)	Hi-Z	Hi-Z	Hi-Z	Hi-Z	H	H	H	H	H	L	L
AF REC P	MA-292 IC161⑥	O	H	H	H	H	H	H	H	H	H	L	H
AF SWP	MA-292 IC161②	O	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
FULL ERS	MA-292 IC161⑧	O (O.D)	H	H	H	H	H	H	H	H	H	L	H
AF REC	MA-323 IC161⑥	O	L	L	L	L	L	L	L	L	L	H	H
REC P	MA-323 IC161⑨	O	L	L	L	L	L	L	L	L	L	H	L

*1. 25 Hz (PAL), 30 Hz (NTSC) 50% duty pulse approx. 5 msec delayed from RF SW P.

5-5. SERVO/SYSTEM/TIMER/TUNER CONTROL MICROPROCESSOR PIN FUNCTION (MA-292 BOARD IC160)

Pin No.	Pin Name	I/O	Function
1	SW1	O	TUNER System control-1
2	AN GND	-	Analog Ground
3	APC ERROR	I	APC ERROR Voltage input
4	DMS UP	I	Click Shuttle forward/reverse signal input (DMS models only)
5	FUNC. KEY2	I	Function Key Analog voltage input
6	TU AFT	I	AFT (Auto fine tuning signal input)
7	FUNC. KEY1	I	Function Key Analog voltage input
8	POWER FAIL	I	Power failure detect signal input
9	DMS DOWN	I	Click Shuttle forward/reverse signal input (DMS models only)
10	DEST	I	Destination set
11	S SENS	I	Supply end sensor signal input
12	T SENS	I	Take up end sensor signal input
13	VIDEO RF	I	Video RF Envelop input
14	AU RF	I	Hifi Audio Envelop input
15	AN 5V	-	Power supply
16	RESET	I	RESET signal input
17	3.58/4.43	O	NTSC color freq. judge signal
18	PAL	O	"H": PAL (Video block control signal)
19	PB	O	"L": Play-Back mode
20	SECAM ON	O	"L": SECAM mode set
21	SW2	O	TUNER System control-2
22	VCC	-	Power supply
23	AF SWP	O	AF switching pulse output
24	RF SWP	O	RF switching pulse output
25	CAP VS	O	Capstan error signal output
26	DRUM VS	O	Drum motor error signal output
27	QVD	O	Quasi VD pulse output
28	N.C.	-	Not used
29	H. AMP/SW	O	"H": A-DUB mode (CTL Amp. Gain. Control)
30	N.C.	-	Not used
31	CTL (+)	I/O	CTL head signal Input/Output (rec mode)
32	CTL (-)	I/O	CTL head signal Input/Output (rec mode)
33	VSS (SERVO)	-	Ground
34	CTL-AMP1	I	CTL Amp. Control (Gain set)
35	CTL-AMP2	I	CTL Amp. Control (Gain set)
36	CTL-AMP3	I	CTL Amp. Control (Gain set)
37	CTL-AMP OUT	O	CTL Amp. Output (For Check)
38	DRUM FG	I	Drum FG Schmitt amp. input
39	DRUM PG	I	Drum PG Schmitt amp. input
40	CAP FG	I	Capstan FG Schmitt input
41	VCC (SERVO)	-	Power supply
42	VCC(OSD)	-	Power supply
43	CV IN	I	Composite Video signal input
44	VREF	I	Reference bias and clamp bias power pin
45	CV OUT	O	Composite Video signal output
46	N.C.	-	Not used
47	AFC LPF	I	AFC LPF pin
48	AFC OSC	I	AFC oscillator pin
49	VSS (OSD)	-	Ground
50	DOSC-IN	I	OSD dot clock oscillator (input)

Pin No.	Pin Name	I/O	Function
51	DOSC-OUT	O	OSD dot clock oscillator (output)
52	4FSC-OUT	O	OSD 4fsc oscillator terminal (output)
53	4FSC-IN	I	OSD 4fsc oscillator terminal (input)
54	CSYNC	I	Composite Sync signal input
55	REC PRF	I	Erasing protection tab. Cassette in detection
56	IIC DATA	O	EEP ROM, Hifi IC, Tuner/Serial communication signal (IIC DATA)
57	IIC CLOCK	O	EEP ROM, Hifi IC, Tuner/Serial communication signal (IIC CLOCK)
58	DRUM QR	O	Drum motor step driving
59	AF REC	O	"I" output when Hifi audio REC
60	AF REC P	O	"L" output when Hifi audio REC pause
61	MESECAM DET	I	MESECAM mode detect signal input
62	SSB CLOCK (VIDEO)	O	Video, Video Amp. Serial communication signal (CLOCK)
63	SSB DATA (VIDEO)	O	Video, Video Amp. Serial communication signal (DATA)
64	BLUE BACK	O	OSD block control signal output
65	APC PWM	O	APC PWN signal
66	CAP TRQ PWM	O	Capstan TRQ PWN output
67	N.C.	-	Not used
68	TEST	I	Fixed to Ground
69	32kHz (IN)	I	Timer Clock terminal (32kHz)
70	32kHz (OUT)	O	Timer Clock terminal (32kHz)
71	VSS	-	Ground
72	10MHz (IN)	I	System clock terminal (10MHz)
73	10MHz (OUT)	O	System clock terminal (10MHz)
74	END LED	O	Top/End LED ON/OFF control
75	REC P	O	"L" output when REC pause mode
76	IN SEL 1	O	LINE-INPUT selection control signal-1
77	IN SEL 2	O	LINE-INPUT selection control signal-2
78	OSD SEL	O	OSD X'tal select signal (PAL/NTSC_)
79	A MUTE	O	"H" Audio mute signal output
80	WRITE CONT	O	EEPROM write timing control
81	EP. LP	O	"H" : "LP/EP" mode
82	REMOCON	I	Remote control signal (SIFCS) input
83	CAM	O	CAM motor control
84	MODE 1	I	Mechanism section CAM encoder input (data1)
85	MODE 2	I	Mechanism section CAM encoder input (data2)
86	MODE 3	I	Mechanism section CAM encoder input (data3)
87	MODE 4	I	Mechanism section CAM encoder input (data4)
88	T REEL	I	T side reel FG input
89	S REEL	I	S side reel FG input
90	FLD CS	O	FIP driver chip select signal output
91	FUJI ERASE	O	Full erase head on/off control signal
92	P CONT	O	Power Supply control signal
93	CAP RVS	O	Capstan reverse control signal H when Reverse
94	CAP QR	O	Capstan step driving
95	S CLOCK 0	O	Serial communication signal (Serial clock)
96	S IN 0	I	Serial communication signal (Data input)
97	S OUT 0	O	Serial communication signal (Data output)
98	PLL CLOCK	O	TUNER PLL clock
99	TU ENABLE	O	TUNER PLL signal chip select
100	PLL DATA	O	TUNER PLL data

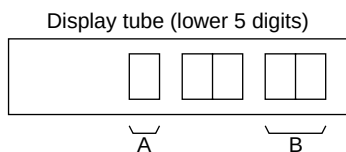
5-6. NICAM PROCESSOR PIN FUNCTION (NK-11 BOARD IC1)

Pin. No.	Pin Name	I/O	Function
1	OUTL	O	Analog output left
2	OUTR	O	Analog output right
3	VDDA1	–	Analog power supply; DAC circuitry
4	VSSA1	–	Analog ground; DAC circuitry
5	VSSD1	–	Digital ground; DAC circuitry
6	VDD1	–	Digital power supply; DAC circuitry
7	VSSD2	–	Digital ground; DSP part
8	VDD2	–	Digital power supply; DSP part
9	TP2	I	Additional test pin 2; connected to ground for normal operation
10	NICAM	–	Not used
11	TP1	I	Additional test pin 1; connected to ground for normal operation
12	PCLK	–	Not used
13	ADDR1	–	Not used
14	Vtune	O	Tuning voltage output for crystal oscillator
15	XTALI	I	Crystal oscillator input
16	XTALO	O	Crystal oscillator output
17	TEST2	I	Test pin 2; connected to ground for normal operation
18	Iref	I	Resistor for reference current generation; front end circuitry
19	ADDR2	–	Not used
20	VSSA2	–	Analog ground; analog front end circuitry
21	VDDA2	–	Analog power supply; analog front end circuitry
22	TEST1	I	Test pin 1; connected to ground for normal operation
23	SIF2	I	Sound IF input 2
24	Vref1	I	Reference voltage; analog front end circuitry
25	SIF1	I	Sound IF input 1
26	CRST	–	Capacitor for power-on reset
27	VSSD3	–	Digital supply; front end circuitry
28	VDD3	–	Digital supply; front end circuitry
29	SCL	I	Serial communication signal (IIC CLOCK)
30	SDA	I	Serial communication signal (IIC DATA)
31	SDO	–	Not used
32	WS	–	Not used
33	SCK	–	Not used
34	SYSCLK	–	Not used
35	VDD4	–	Digital power supply; demodulator circuitry
36	VSSD4	–	Digital ground; demodulator circuitry
37	P1	–	Not used
38	MONOIN	–	Not used
39	EXTIR	I	External audio input right channel
40	EXTIL	I	External audio input left channel
41	Vref2	I	Analog reference voltage digital-to-analog converter and operational amplifiers
42	P2	–	Not used
43	VDDA3	–	Analog power supply; operational amplifiers
44	VSSA3	–	Analog ground; operational amplifiers

SECTION 6

ERROR CODES

This set displays an error code, and a mode code in case of error on the display tube, if the operation stopped by error. The following provides description concerned.



A: Error code Table 6-1

B: Mode code in case of error Table 6-2

These codes are displayed at lower 5-digit positions of display tube.

In this case, “ : ” between digits is not displayed.

Table 6-1. Error Codes

Code	Description
0	NO ERROR
1	CAM ENCODER ERROR, LOAD DIRECTION
2	CAM ENCODER ERROR, UNLOAD DIRECTION
3	T REEL ERROR
4	S REEL ERROR
5	CAPSTAN ERROR
6	DRUM ERROR
7	INITIALIZE ERROR
8	CASSETTE UNLOADING ERROR
9	RESERVED

Table 6-2. Mode Codes in Case of Error

Code	Description
0	EJECT (POWER ON)
1	EJECT (POWER OFF)
2	UNLOAD STOP
3	STOP (POWER ON)
4	POWER OFF (CASSETTE IN)
5	F. FWD
6	REW
7	LOW SPEED F. FWD
8	LOW SPEED REW
9	STANDBY
10	REC
11	REC (VISS)
12	REC PAUSE
13	PLAY
14	A. DUB
15	A. DUB PAUSE
16	CUE
17	REV
18	STILL (MECHA FWD)
19	FWD FRAM BY FRAM (FWD SLOW)
20	STILL (MECHA RVS)
21	RVS FRAM BY FRAM (RVS SLOW)

SECTION 7 ADJUSTMENTS

During the adjustment, see the Parts Arrangement Diagram for Adjustments on Page 7-6.

7-1. MECHANICAL ADJUSTMENTS

Refer to the SERVICE MANUAL of VHS MECHANICAL ADJUSTMENT VI.

7-2. ELECTRICAL ADJUSTMENTS

2-1. PRE-ADJUSTMENT PREPARATIONS

Necessary items and indications for total adjustment of electric circuit of this machine will be described in this chapter.

2-1-1. Instruments to be Used

- 1) Color TV
 - 2) Oscilloscope 1 or 2 phenomena, band more than 30 MHz, delay mode, as provided.
 - 3) NTSC pattern generator
 - 4) PAL pattern generator
 - 5) Digital voltmeter
 - 6) Audio level meter
 - 7) Audio noise meter
 - 8) Audio generator
 - 9) Attenuator
 - 10) Alignment tape
- Part Code: 8-192-605-36 KRV-51P (PAL)
Part Code: 8-192-605-32 KRV-51N2 (NTSC)

2-1-2. Connection

Unless otherwise specified, connect and adjust the measuring instruments as shown in the following diagram.

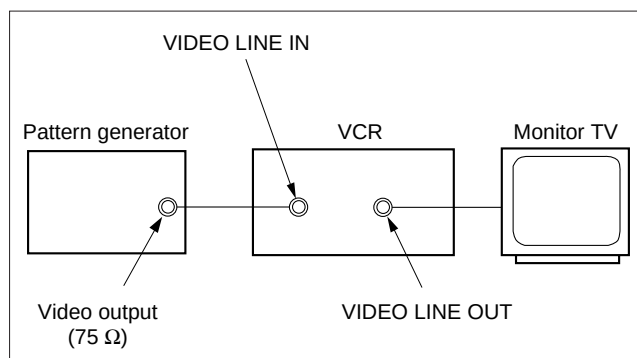


Fig. 7-2-1

2-1-3. Set-up of Adjustment

In this adjustment, PAL or NTSC pattern generator is connected with LINE input signal terminal. When check to tuner, connected AERIAL terminal. Check that the amplitudes of video signal SYNC signal, of picture portions, and of burst signals are flat at approximately 0.3, 0.7 and 0.3 V, respectively, and that the level ratio of the burst signal and "red" signal are 0.30: 0.66. Fig. 7-2-2. shows video signals (color bars) used in adjusting the video section.

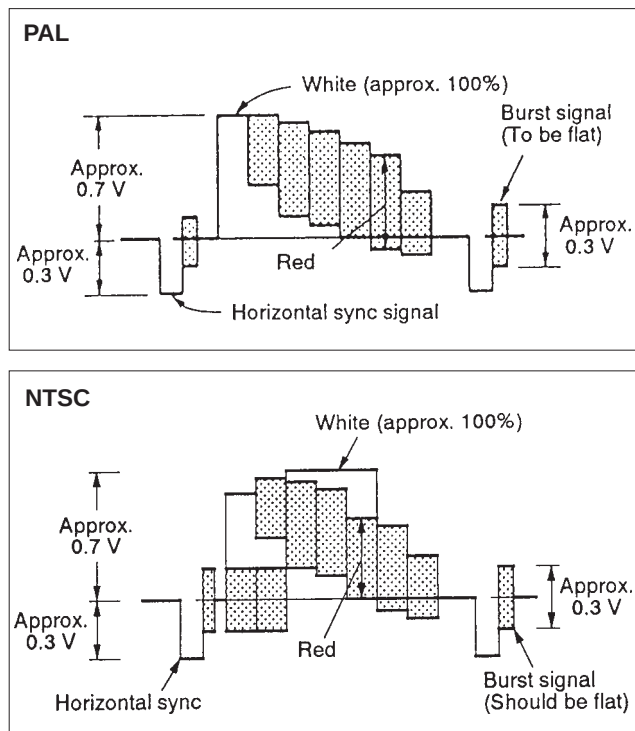


Fig. 7-2-2

2-1-4. Alignment Tapes

[Alignment Tape (KRV-51N2 / KRV-51P)]

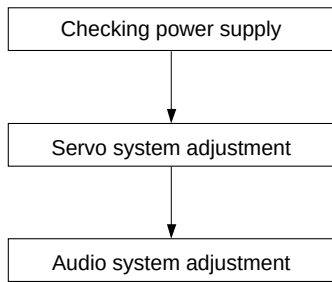
	Mode	Time	Video signal	Audio signal (HiFi/Normal)
1	SP	Seven minutes	Color bar	400 Hz
2	SP	Three minutes	Monoscope	
3	EP	Seven minutes	Color bar	
4	EP	Three minutes	Monoscope	

2-1-5. Specified I/O Level and Impedance Input/output terminal

Video inputs	LINE IN : phono jack 1 Vp-p, 75 Ω, unbalanced, sync negative
Audio inputs	LINE IN : phono jacks 47 kW, -7.5 dBs (0 dBs = 0.775 Vrms) More than 10 kW, -4 dBs
Video outputs	LINE OUT: phono jack 1 Vp-p, 75 Ω, unbalanced, sync negative
Audio outputs	LINE OUT: phono jacks -7.5 dBs at load impedance 47 kΩ Output impedance : less than 10 Ω

2-1-6. Adjusting Sequence

Make the electrical adjustment in the following sequence.



2-2. POWER SUPPLY ADJUSTMENT

2-2-1. Power Supply Check (HS-921SF/921SF1 BOARD, SR-708/718 BOARD)

Mode	E-E
Measuring Instrument	Digital voltmeter
-10 V check	
Measurement Point	Pin ⑨ of CN600
Specified Value	-10.3 ± 0.8 V
+6 V check	
Measurement Point	Pin ⑦, ⑧ of CN600
Specified Value	5.9 ± 0.2 V
+13 V check	
Measurement Point	Pin ②, ③ of CN600
Specified Value	13.3 ± 0.5 V
+35 V check	
Measurement Point	Pin ① of CN600
Specified Value	38.0 ± 3.0 V

Checking Method:

- 1) Confirm that each voltage meets its specified value.

2-2-2. +6 V Adjustment (HS-921SF/921SF1 BOARD, SR-708/718 BOARD)

Mode	REC or PB
Measuring Instrument	Digital voltmeter
Measurement Point	Pin ⑦, ⑧ of CN201
Adjusting Element	RV201 (HS-921SF/921SF1 BOARD) VR201 (SR-708/718 BOARD)
Specified Value	5.9 ± 0.2 V

2-3. SERVO SYSTEM Adjustment

2-3-1. RF Switching Position Adjustment (MA-323 Board)

Purpose:

Adjust the interval between A ch and B ch of tape playback output.

Improve the interchangeability with other tapes and sets.

When it is out of order, the interval appears on the screen, the screen is disturbed.

Mode	PB
Signal	Alignment tape SP mode color bar
Measurement Point	CH1: VIDEO LINE OUT CH2: Pin ② of CN501 (RF SWP)
Measuring Instrument	Oscilloscope
Specified Value	6.5 ± 0.5 H (416 ± 32 μ sec) PAL 6.5 ± 0.5 H (410 ± 32 μ sec) NTSC

Adjusting Method:

- 1) Connect MA-323 board JS140 to the GND for about 1 second to activate the RF switching position adjustment mode.
- 2) Check appear "A P" on FL display.
- 3) Using the channel + and - buttons, adjust to 6.5 ± 0.5 H.
- 4) Press the pause button.

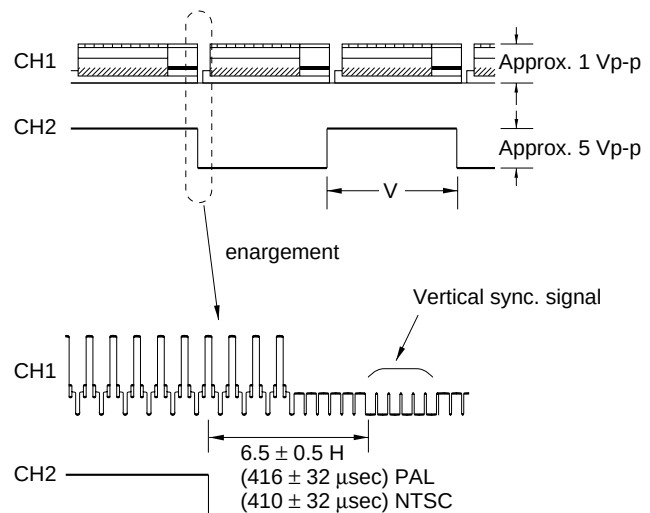


Fig. 7-2-3.

2-4. AUDIO SYSTEM ADJUSTMENTS

- Adjust both Lch and Rch.

[Connection]

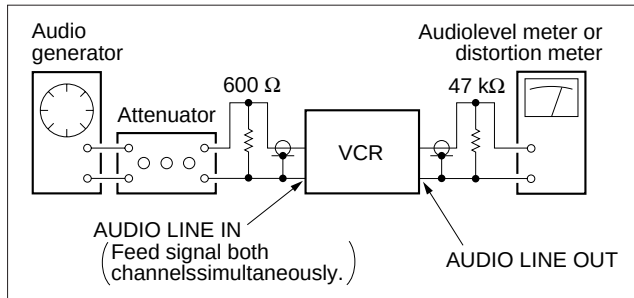


Fig. 7-2-4.

2-4-1. Hi-Fi Audio System Adjustment (SLV-ED6/ED7/EZ7)

- Set switches and knobs to the following positions to make adjustment unless otherwise specified.

INPUT SELECT switch LINE

AUDIO MONITOR STEREO

[Adjustment Sequence]

- AF Switching Position Adjustment
- Frequency Response Check
- Overall Level Characteristic and Distortion Factor Check
- Overall S/N Check

1. AF Switching Position Adjustment (MA-323 Board)

Purpose:

Adjust the interval between A CH and B CH of tape playback output. Improve the interchangeability with other tapes and sets. When it is out of order, noisy sound is increased and big noise is heard.

Mode	PB
Signal	Alignment tape SP mode color bar
Measurement point	CH1: Pin ② of CN501 CH2: Pin ① of CN341
Measuring Instrument	Oscilloscope
Specified Value	Fig. 7-2-5

Adjusting Method:

- Connect MA-323 board JS140 to the GND for about 1 second to activate the RF switching position adjustment mode.
- Press the record button to activate the AF switching position adjustment mode.
- Check appear "A H" on FL display.
- Using the channels + and - buttons, minimize a chipped portion. At this time, confirm that a noisy sound is not heard.
- Press the pause button.

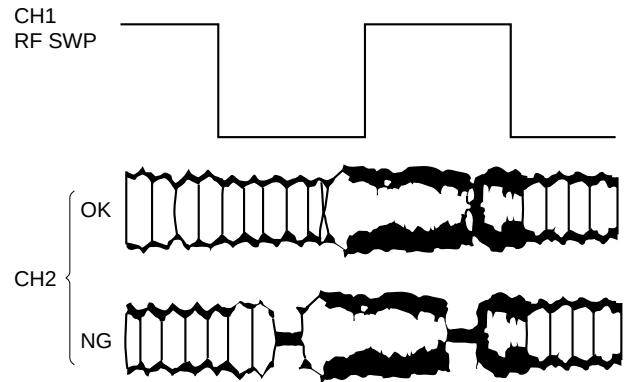


Fig. 7-2-5.

2. Frequency Response Check

Purpose:

Confirm that the frequency characteristic is within the specification.

Mode	REC and PB (SP, LP mode)
Signal	400 Hz, -7.5 dBs 20 Hz, -7.5 dBs 20 kHz, -7.5 dBs
Measurement point	Audio output terminal
Measurement equipment	Audio level meter
Specified value	0 ± 2 dB

Note: Tape path adjustment must have been completed.

Confirmation Method:

- Supply a signal of 400 Hz, -7.5 dBs to both L and R channels of Audio Line Input.
- Connect the audio level meter to the Audio Line Output.
- Adjust the attenuator so that the audio level meter will indicate -7.5 dBs.
- Make recording.
- Set an audio line input signal to 20 Hz and make recording.
- Set an audio line input signal to 20 kHz and make recording.
- Playback a recorded portion, and measure output levels at 400 Hz and 20 Hz and 20 kHz.
- Confirm that the 20 Hz and 20 kHz playback output level within a range of the 400 Hz playback output level 0 ± 2 dB.

3. Overall Level Characteristic and Distortion Factor Check

Purpose:

Check the record level, play level, and distortion factor against the reference input.

Mode	REC and PB (SP mode)
Signal	400 Hz, -7.5 dBs
Measurement point	Audio output terminal
Measurement equipment	Audio level meter and distortion factor meter
Specified value	Playback level: -7.5 ± 2 dBs Distortion factor: 1% or less

Confirmation Method:

- 1) Supply an audio signal of 400 Hz, -7.5 dBs simultaneously to both L and R channels of Audio Line Input.
- 2) Make recording
- 3) Play back a recorded portion.
- 4) Confirm that a playback level is -7.5 ± 2 dBs.
- 5) Confirm that a distortion factor is within 1%.

4. Overall S/N Check

Purpose:

Confirm that the S/N is within the specification.

Mode	REC and PB (SP mode)
Signal	Short
Measurement point	Audio output terminal
Measurement equipment	Audio noise meter
Specified value	-67.5 dBs or less

Confirmation Method:

- 1) Connect both L and R channels of audio line input to the GND.
- 2) Start recording.
- 3) Play the recorded part to confirm that the noise is below -67.5 dBs.

2-4-2. Normal Audio System Adjustment

- Make adjustment in the SP mode, unless otherwise specified. Use a normal VHS cassette for an adjustment tape.
- Set AUDIO MONITOR to normal.

[Adjustment Sequence]

1. ACE Head Adjustment
2. E-E Output Level Check
3. Frequency Response Check
4. Overall Level Characteristic and Distortion Factor Check
5. Overall S/N Check

1. ACE Head Adjustment

Refer to the service manual of VHS MECHANICAL ADJUSTMENT VI.

2. E-E Output Level Check

Purpose:

Confirm that the output level against the reference input is within the specification.

Mode	E-E
Signal	L, R: 400 Hz, -7.5 dBs
Measurement point	Audio output terminal
Measurement equipment	Audio level meter
Specified value	-7.5 ± 2 dBs

Confirmation Method:

- 1) Simultaneously input a signal of 400 Hz, -7.5 dBs to both L and R channels of Audio Line Input.
- 2) Confirm that the audio output level is -7.5 ± 2 dBs.

3. Frequency Response Check

Purpose:

Confirm that the frequency characteristic is within the specification.

Mode	REC and PB (SP mode)
Signal	400 Hz, -30.0 dBs 7 kHz, -30.0 dBs
Measurement point	Audio output terminal
Measurement equipment	Audio level meter
Specified value	1 ± 3 dB

Tape path adjustment must have been completed.

Confirmation Method:

- 1) Supply a signal of 400 Hz, -30.0 dBs to both L and R channels of Audio Line Input.
- 2) Connect the audio level meter to the Audio Line Output.
- 3) Adjust the attenuator so that the audio level meter will indicate -30.0 dBs.
- 4) Make recording in the SP mode.
- 5) Set an audio line input signal to 7 kHz and make recording.
- 6) Playback a recorded portion, and measure output levels at 400 Hz and 7 kHz.
- 7) Confirm that the 7 kHz playback output level within a range of the 400 Hz playback output level 1 ± 3 dB.

4. Overall Level Characteristic and Distortion Factor Check

Purpose:
Check the record level, play level, and distortion factor against the reference input.

Mode	REC and PB (SP mode)
Signal	400 Hz, −7.5 dBs
Measurement point	Audio output terminal
Measurement equipment	Audio level meter and distortion factor meter
Specified value	Playback level: −7.5 ± 2 dBs Distortion factor: 4% or less

Confirmation Method:

- 1) Supply an audio signal of 400 Hz, −7.5 dBs simultaneously to both L and R channels of Audio Line Input.
- 2) Make recording
- 3) Play back a recorded portion.
- 4) Confirm that a playback level is −7.5 ± 2 dBs.
- 5) Confirm that a distortion factor is within 4%.

5. Overall S/N Check

Purpose:
Confirm that the S/N is within the specification.

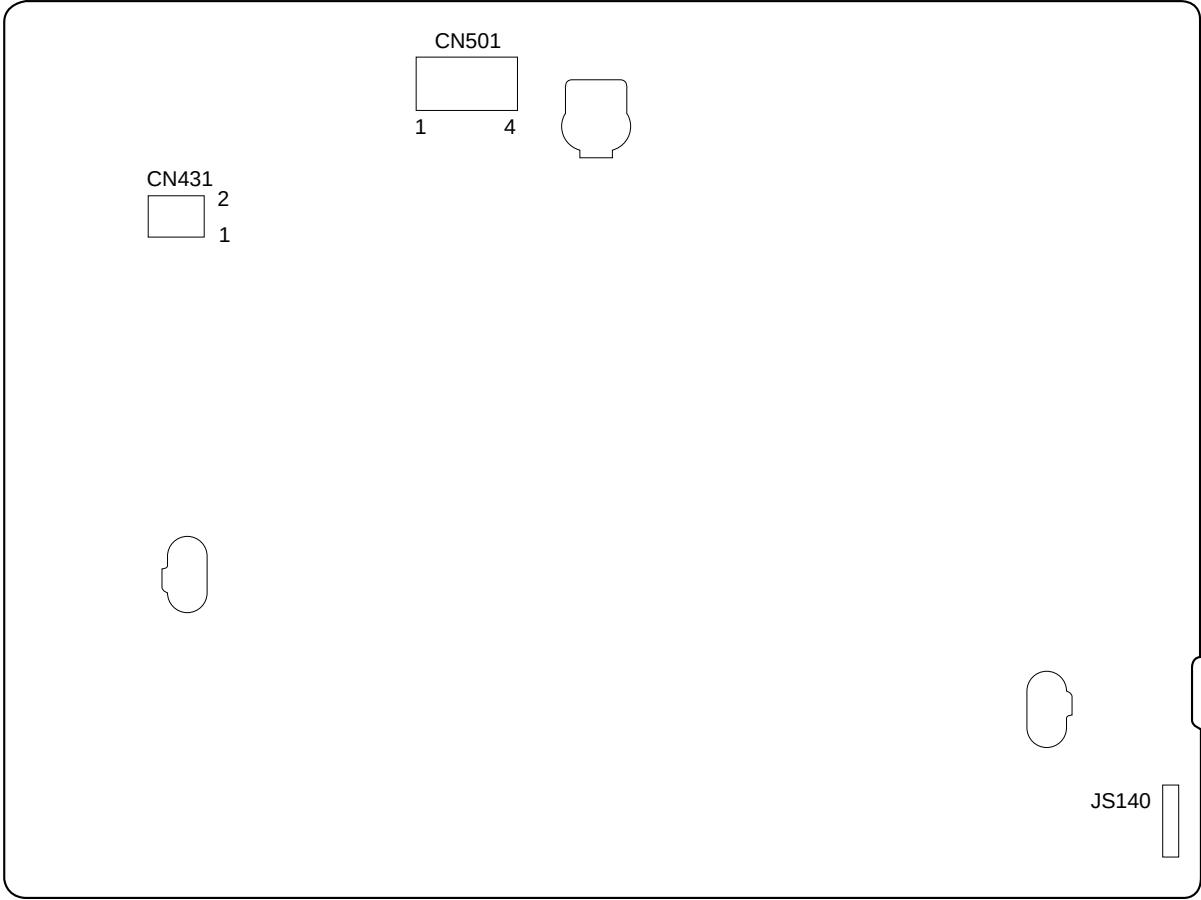
Mode	REC and PB (SP mode)
Signal	Short
Measurement point	Audio output terminal
Measurement equipment	Audio noise meter
Specified value	−46.0 dBs or less

Confirmation Method:

- 1) Connect both L and R channels of audio line input to the GND.
- 2) Start recording.
- 3) Play the recorded part to confirm that the noise is below −46.0 dBs.

2-5. PARTS ARRANGEMENT DIAGRAM FOR ADJUSTMENTS

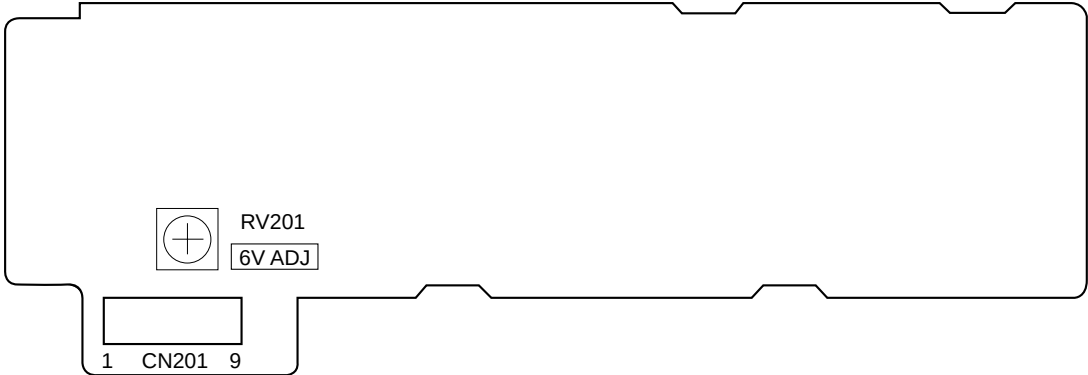
MA-323 BOARD (Side A)



HS-921SF/921SF1 BOARD (Side A)



SR-708/718 BOARD (Side A)



SECTION 8

REPAIR PARTS LIST

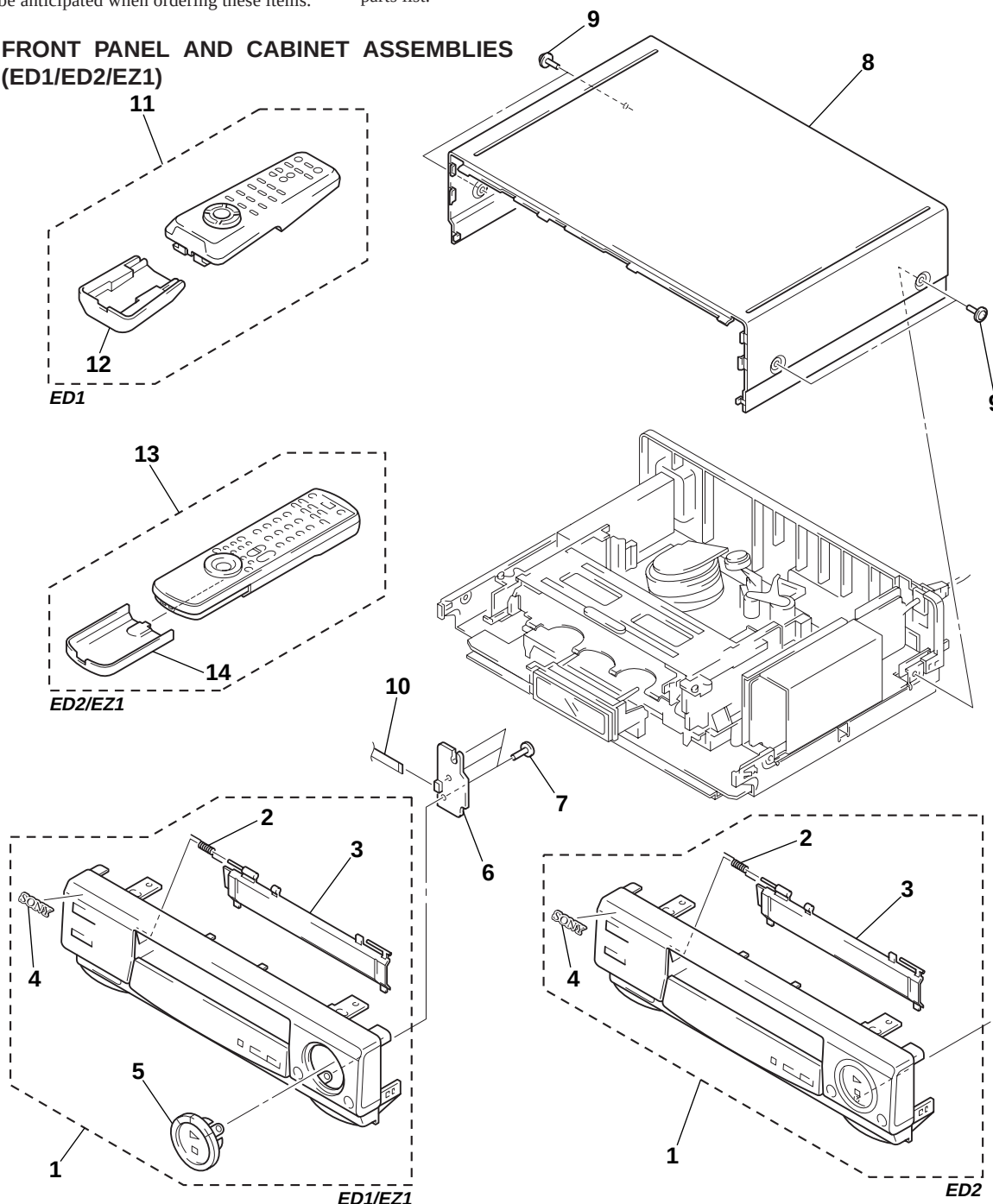
8-1. EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

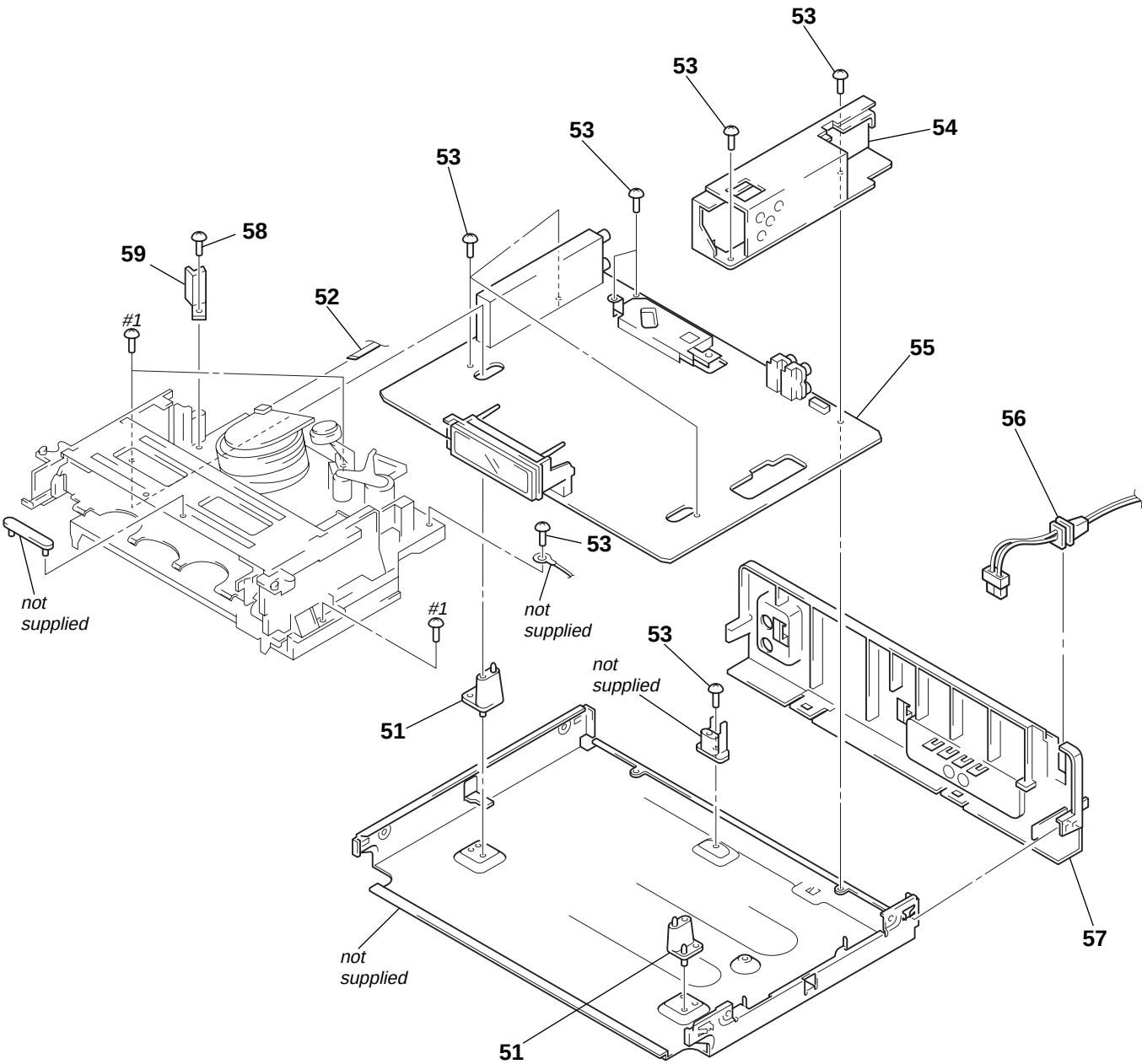
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

8-1-1. FRONT PANEL AND CABINET ASSEMBLIES (ED1/ED2/EZ1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3948-469-1	PANEL ASSY, FRONT (ED1)		8	3-988-080-21	CASE, UPPER (ED2)	
1	X-3948-471-1	PANEL ASSY, FRONT (ED2)		8	3-988-080-31	CASE, UPPER (ED1/EZ1)	
1	X-3948-472-1	PANEL ASSY, FRONT (EZ1)		9	3-710-901-11	SCREW, TAPPING	
2	3-953-432-01	SPRING (GE), FL		10	1-783-567-11	CABLE, FLAT (FDS-4)	
3	3-979-467-01	DOOR, CASSETTE (ED2)		11	1-475-613-21	COMMANDER, STANDARD (RMT-V248A)	(ED1)
3	3-979-467-11	DOOR, CASSETTE (ED1/EZ1)		12	3-709-322-01	COVER, BATTERY (for RMT-V248A) (ED1)	
4	3-943-995-01	EMBLEM (NO.5), SONY		13	1-475-614-31	COMMANDER, STANDARD (RMT-V245B)	(ED2/EZ1)
5	X-3946-598-1	BUTTON ASSY, FUNCTION (ED1/EZ1)		14	3-709-128-01	COVER, BATTERY (for RMT-V245B) (ED2/EZ1)	
* 6	A-6794-527-A	DS-80 BOARD, COMPLETE					
7	4-921-277-41	SCREW (B2.6X8), TAPPING, BIND					

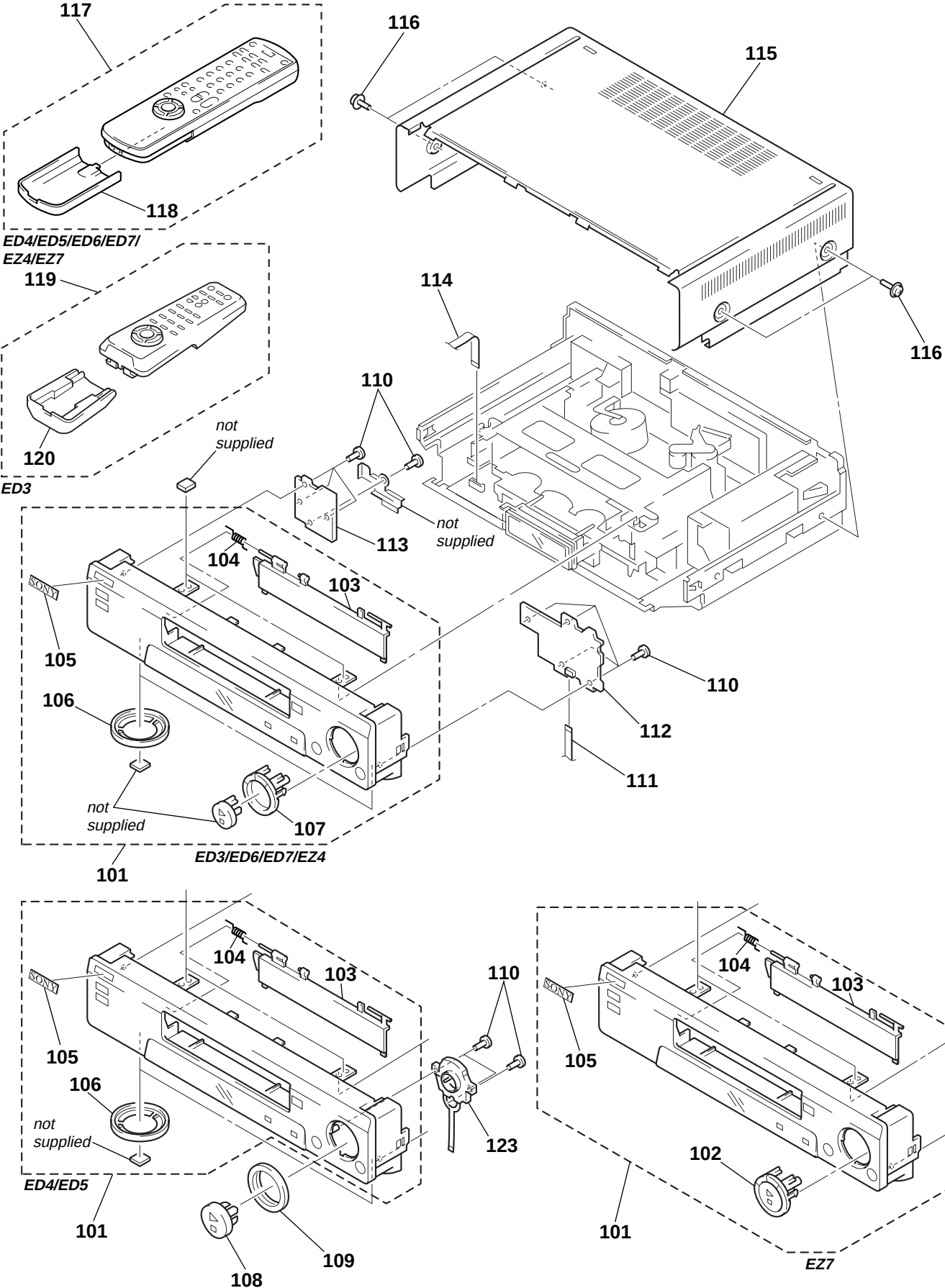
8-1-2. CHASSIS ASSEMBLY (ED1/ED2/EZ1)



The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

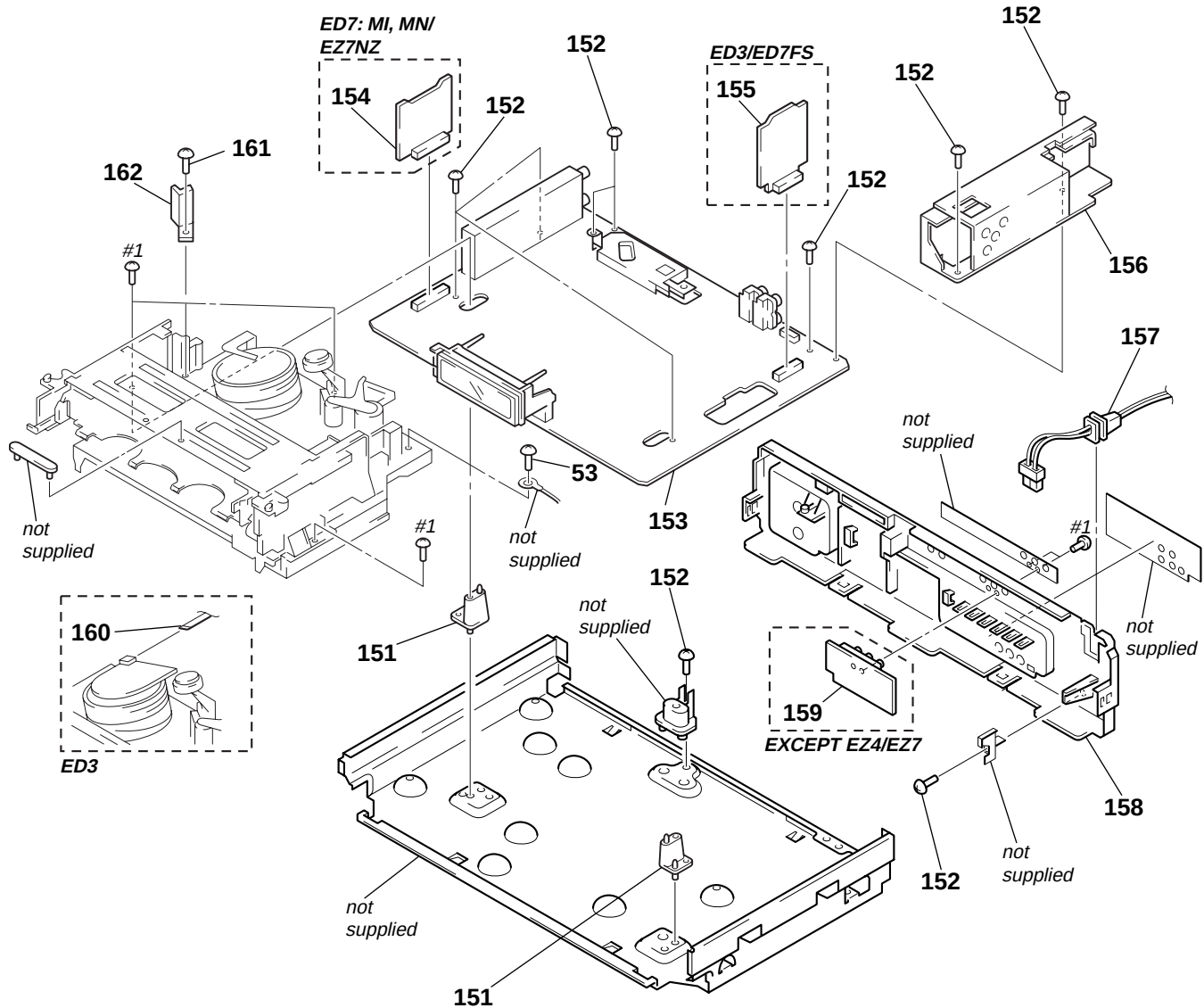
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51	3-959-383-01	BASE (R), MD		* 55	A-6791-594-A	MA-323 BOARD, COMPLETE (EZ1)	
52	1-783-566-11	CABLE, FLAT (FMD-12)		 56	1-777-854-21	CORD, POWER (ED1/ED2)	
53	3-970-608-21	SUMITITE (B3), +BV		 56	1-777-855-22	CORD, POWER (EZ1)	
54	1-468-311-11	POWER BLOCK (SR-718) (EZ1)		* 57	3-979-652-51	PANEL (M), REAR (EZ1)	
54	1-468-312-11	POWER BLOCK (HS-921SF) (ED1/ED2)		* 57	3-979-652-61	PANEL (M), REAR (ED1/ED2)	
* 55	A-6791-592-A	MA-323 BOARD, COMPLETE (ED1)		58	3-979-112-01	SCREW SW (+) BVTP 3X10	
* 55	A-6791-593-A	MA-323 BOARD, COMPLETE (ED2)		59	X-3947-568-2	TC (N17S) ASSY	

8-1-3. FRONT PANEL AND CABINET ASSEMBLIES (EXCEPT ED1/ED2/EZ1)



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
101	X-3948-407-1	PANEL ASSY, FRONT (ED7MN)		* 112	A-6791-588-A	DM-76 BOARD, COMPLETE (EXCEPT ED4/ED5)	
101	X-3948-408-1	PANEL ASSY, FRONT (ED7MI)		* 113	A-6791-575-A	MF-312 BOARD, COMPLETE	
101	X-3948-410-1	PANEL ASSY, FRONT (EZ4)				(ED3/ED7MI/EZ4/EZ7)	
101	X-3948-412-1	PANEL ASSY, FRONT (ED6)		* 113	A-6791-587-A	MF-312 BOARD, COMPLETE (ED4/ED5)	
101	X-3948-413-1	PANEL ASSY, FRONT (EZ7)		* 113	A-6791-589-A	MF-312 BOARD, COMPLETE	
						(ED6/ED7: FS, MN)	
101	X-3948-414-1	PANEL ASSY, FRONT (ED7FS)		114	1-783-568-11	CABLE, FLAT (FMF-23)	
101	X-3948-416-1	PANEL ASSY, FRONT (ED4)					
101	X-3948-417-1	PANEL ASSY, FRONT (ED5)		115	3-710-901-11	SCREW, TAPPING	
101	X-3948-419-1	PANEL ASSY, FRONT (ED3)		* 116	3-977-136-21	CASE, UPPER (EXCEPT EZ7)	
102	X-3948-232-1	BUTTON ASSY, FUNCTION (EZ7)		* 116	3-977-136-31	CASE, UPPER (EZ7)	
				117	1-475-616-11	COMMANDER, STANDARD (RMT-V247)	
103	3-987-850-01	DOOR (I), CASSETTE (ED4/ED5)				(ED4/ED5/ED6/ED7FS)	
103	3-987-899-01	DOOR, CASSETTE, (P) (ED3/ED6/ED7/EZ4)		117	1-475-616-21	COMMANDER, STANDARD (RMT-V247A)	
103	3-987-899-11	DOOR (P), CASSETTE (EZ7)				(ED7: MI, MN)	
104	3-953-432-01	SPRING (GE), FL					
105	3-943-995-01	EMBLEM (NO.5), SONY		117	1-475-614-21	COMMANDER, STANDARD (RMT-V245A)	
						(EZ4/EZ7)	
* 106	3-977-160-01	INSULATOR (EXCEPT EZ7)		118	3-709-128-01	COVER, BATTERY (for RMT-V245A) (EZ4/EZ7)	
107	3-987-816-01	RING, BUTTON (ED3/ED6/ED7/EZ4)		118	3-709-133-11	COVER, BATTERY (for RMT-V247/V247A)	
108	3-979-309-11	BUTTON (AV), CENTER (ED4/ED5)				(ED4/ED5/ED6/ED7)	
109	3-988-327-01	RING (M), JOG (ED4/ED5)		119	1-475-613-21	COMMANDER, STANDARD (RMT-V248A)	
110	4-921-277-41	SCREW (B2.6X8), TAPPING, BIND				(ED3)	
111	1-783-569-11	CABLE, FLAT (FDM-4)		120	3-709-322-01	COVER, BATTERY (for RMT-V248A) (ED3)	
* 112	A-6791-586-A	DM-76 BOARD, COMPLETE (ED4/ED5)		123	1-762-844-23	SWITCH, ROTARY (ED4/ED5)	

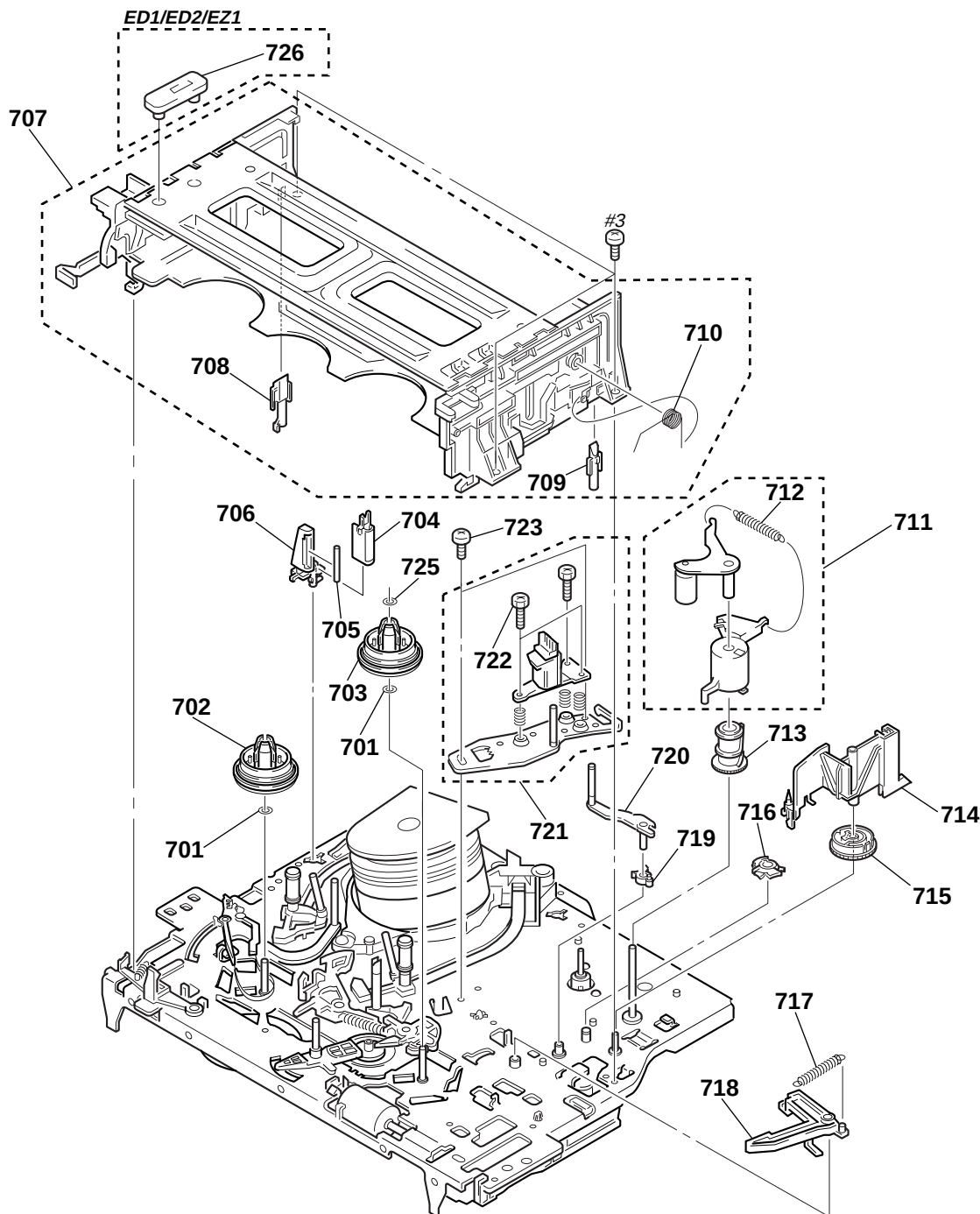
8-1-4. CHASSIS ASSEMBLY (EXCEPT ED1/ED2/EZ1)



The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

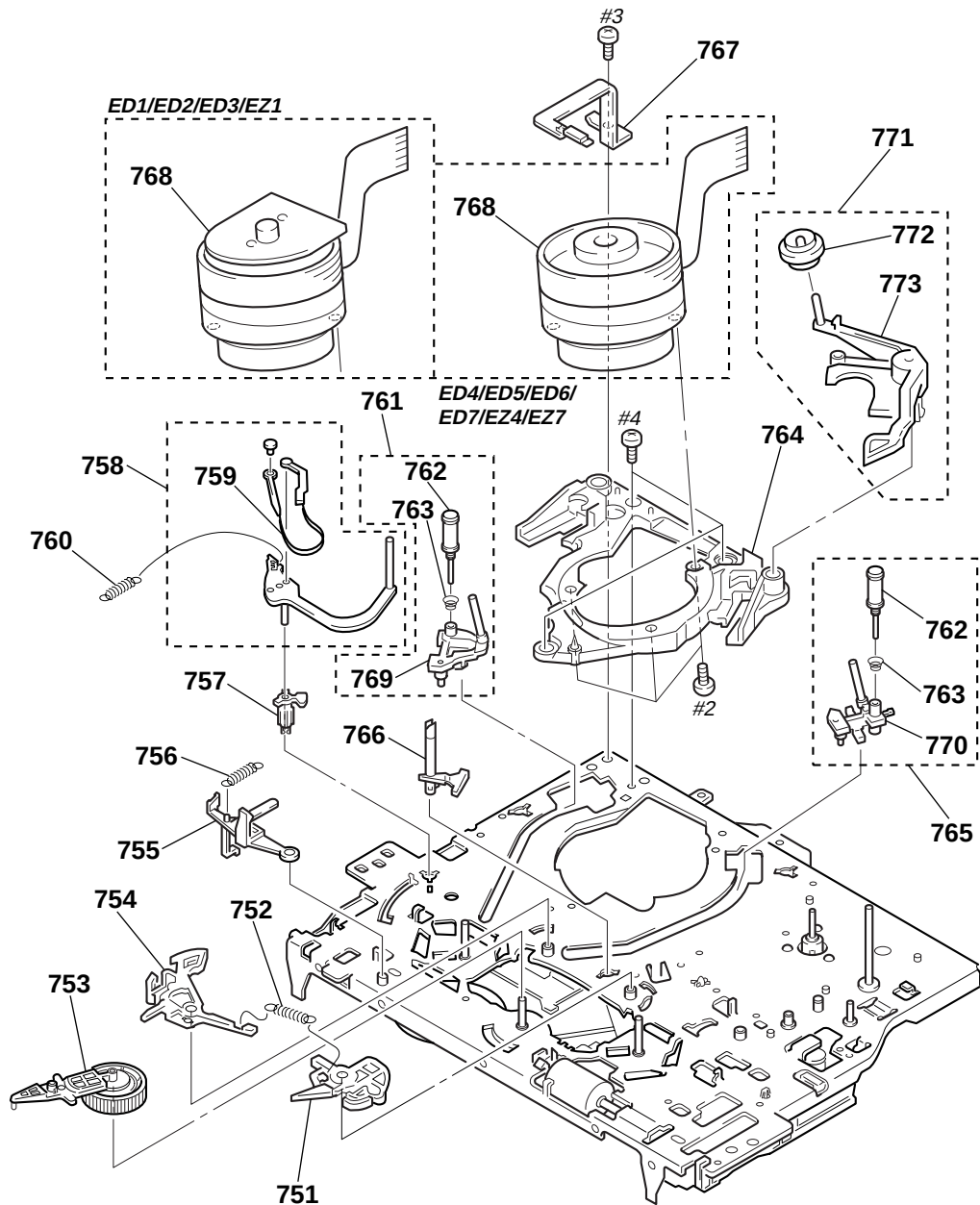
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 151	3-959-383-01	BASE (R), MD		* 155	A-6791-577-A	SE-73 BOARD, COMPLETE (ED3/ED7FS)	
152	3-970-608-21	SUMITITE (B3), +BV		156	1-468-311-21	POWER BLOCK (SR-708) (ED7/EZ4/EZ7)	
* 153	A-6791-573-A	MA-323 BOARD, COMPLETE (EZ4)		156	1-468-312-21	POWER BLOCK (HS-921SF1)	
* 153	A-6791-574-A	MA-323 BOARD, COMPLETE (EZ7AS)				(ED3/ED4/ED5/ED6)	
* 153	A-6791-576-A	MA-323 BOARD, COMPLETE (ED3)		$\triangle$ 157	1-777-854-21	CORD, POWER (EXCEPT EZ4/EZ7)	
				$\triangle$ 157	1-777-855-22	CORD, POWER (EZ4/EZ7)	
* 153	A-6791-578-A	MA-323 BOARD, COMPLETE (ED7FS)		* 158	3-977-139-51	PANEL, REAR (EXCEPT EZ4/EZ7)	
* 153	A-6791-579-A	MA-323 BOARD, COMPLETE (ED5)		* 158	3-977-139-61	PANEL, REAR (EZ4/EZ7)	
* 153	A-6791-580-A	MA-323 BOARD, COMPLETE (ED7MI)		* 159	A-6791-583-A	RJ-80 BOARD, COMPLETE (ED3/ED4/ED5)	
* 153	A-6791-581-A	MA-323 BOARD, COMPLETE (ED7MN)		* 159	A-6791-585-A	RJ-80 BOARD, COMPLETE (ED6/ED7)	
* 153	A-6791-584-A	MA-323 BOARD, COMPLETE (ED6)		160	1-783-566-11	CABLE, FLAT (FMD-12) (ED3)	
* 153	A-6791-590-A	MA-323 BOARD, COMPLETE (EZ7NZ)		161	3-979-112-01	SCREW SW (+) BVTP 3X10	
* 153	A-6791-599-A	MA-323 BOARD, COMPLETE (ED4)		162	X-3947-568-2	TC (N17S) ASSY	
* 154	A-6791-591-A	NK-11 BOARD, COMPLETE					
		(ED7: MI, MN/EZ7NZ)					

8-1-5. MECHANISM CHASSIS ASSEMBLY (1)



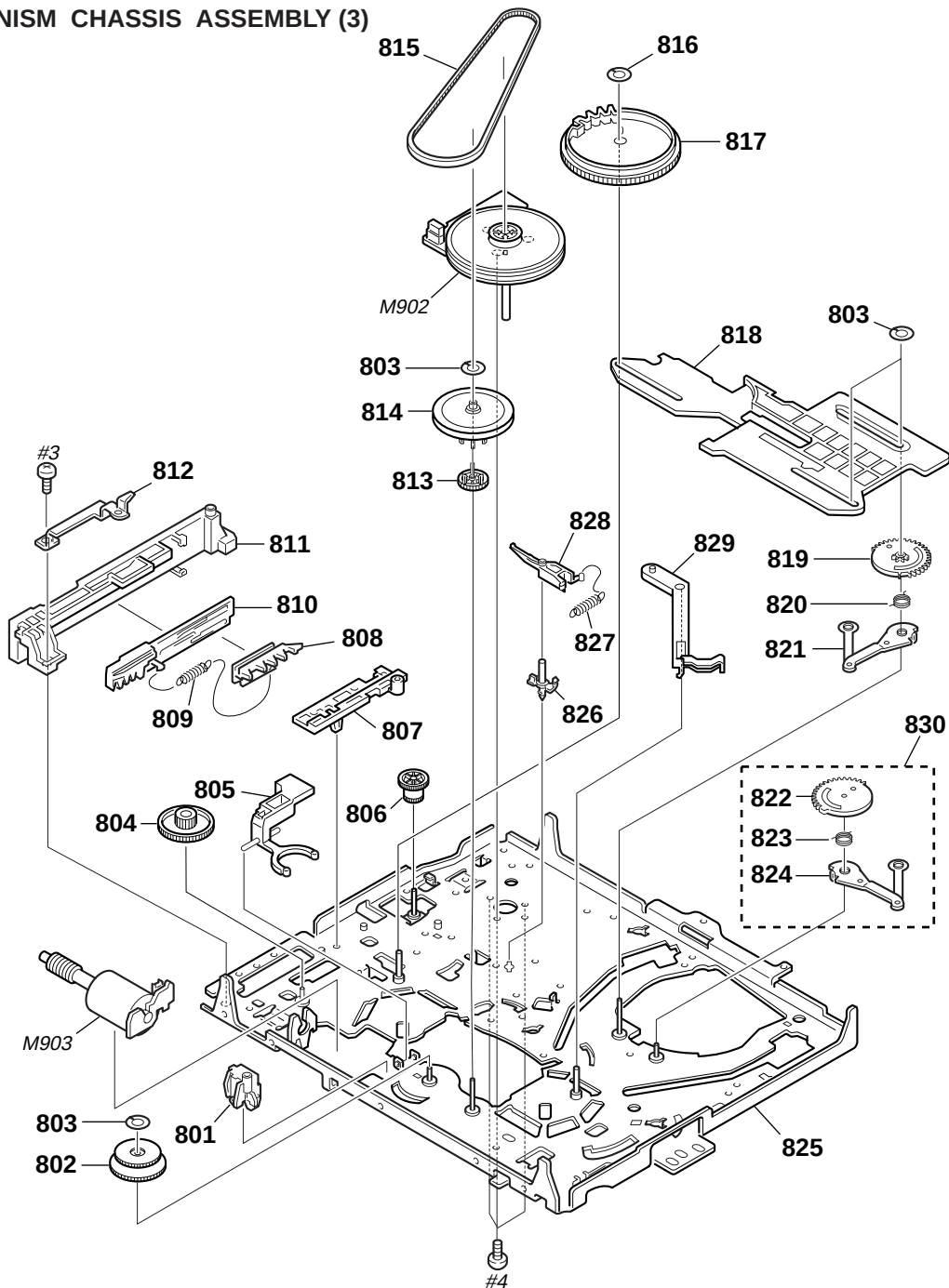
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
701	3-977-509-01	WASHER, THRUST		714	3-977-514-01	OPENER, LID	
702	3-977-507-01	TABLE, REEL (S)		715	3-977-441-01	GEAR, PINCH PRESSING	
703	3-977-508-01	TABLE, REEL (T)		716	3-977-445-01	GEAR, TG8 ARM DRIVING	
704	1-500-144-11	HEAD, FE		717	3-977-465-01	SPRING, EXTENSION (RVS BRAKE)	
705	3-977-495-01	SHAFT TG2		718	X-3947-582-1	ARM ASSY, RVS BRAKE	
706	3-977-494-01	HOLDER, FEH		719	3-977-446-01	GEAR, TG8 ARM	
707	A-6759-619-B	FL COMPLETE ASSY BOARD, COMPLETE		720	X-3947-590-1	TG8 ASSY	
708	3-977-535-01	PLATE, LUMINOUS (END SENSOR)		721	A-6759-620-A	HEAD BLOCK ASSY, ACE (TDK)	
709	3-977-536-01	PLATE, LUMINOUS (TOP SENSOR)		722	3-974-556-01	+ HEXA TT 2.6X9 (TAPER)	
710	3-970-471-01	SPRING (DECK OPEN), TORSION		723	3-979-508-01	SCREW +HEXA TP SW 3X8	
711	A-6759-615-A	PRESS BLOCK ASSY, PINCH		725	3-977-443-01	WASHER, STOPPER	
712	3-958-455-01	SPRING (PINCH), TENSION		726	3-989-036-01	STOPPER, LOCK LEVER (S) (ED1/ED2/EZ1)	
713	3-977-447-01	GEAR, ELEVATOR					

8-1-6. MECHANISM CHASSIS ASSEMBLY (2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
751	X-3947-581-1	BRAKE ASSY, MAIN (T)		764	3-969-632-04	BASE, DRUM	
752	3-977-462-01	SPRING, EXTENTION. (MAIN BRAKE)		765	A-6750-325-A	SHUTTLE (T) BLOCK ASSY	
753	X-3947-573-1	ARM ASSY, PENDULUM		766	3-977-501-01	PLATE, LUMINOUS	
754	X-3947-580-2	BRAKE ASSY, MAIN (S)		767	X-3943-899-8	GROUND ASSY, SHAFT	
755	3-977-513-02	LEVER, REC. PROOF		768	1-759-183-11	DRUM ASSY DZH-78A-R (ED1/ED2/ED3/EZ1)	
756	3-976-767-01	SPRING, TENS. (REC. PROOF)		768	8-839-037-04	DRUM ASSY DZH-74E/Z-RP (ED4/ED5/EZ4)	
757	3-977-487-01	BOSS, TG1 FULCRUM		768	8-839-045-02	DRUM ASSY DZH-95A/Z-RP (ED6/ED7/EZ7)	
758	X-3947-587-1	TG1 ASSY		769	X-3946-855-1	SHUTTLE (S) ASSY	
759	X-3947-589-1	BAND ASSY, TG1		770	X-3946-856-1	SHUTTLE (T) ASSY	
760	3-977-488-01	SPRING (POWER TENSION)		771	A-6746-074-G	ROLLER BLOCK ASSY, HC	
761	A-6750-324-A	SHUTTLE (S) BLOCK ASSY		772	X-3947-255-1	ROLLER ASSY, HC	
762	X-3944-378-1	ROLLER ASSY, GUIDE		773	3-975-724-07	ARM, HC	
763	3-965-178-01	SPRING					

8-1-7. MECHANISM CHASSIS ASSEMBLY (3)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
801	3-977-437-01	RETAINER, CAM MOTOR		817	3-977-439-01	GEAR, CAM	
802	X-3947-584-1	ASSY, REEL DIRECT		818	3-977-442-01	SLIDER	
803	3-977-443-01	WASHER, STOPPER		819	3-977-455-01	GEAR, LOADING (T)	
804	3-977-438-01	WORM - WHEEL		820	3-977-456-03	SPRING, TORSION (LOAD T)	
805	3-977-506-01	ARM, LIMITER SELECTION		821	X-3947-579-1	LEVER ASSY, LOADING (T)	
806	3-977-444-01	GEAR, PINCH TRANSMISSION		822	3-977-451-01	GEAR, LOADING (S)	
807	3-977-515-01	GUIDE, FL SLIDER		823	3-977-452-01	SPRING, TORSION (LOAD S)	
808	3-977-517-01	PLATE, SLIDE, FL		824	X-3947-578-1	LEVER ASSY, LOADING (S)	
809	3-977-519-01	SPRING, TENS. (LIMIT, FL)		825	X-3947-576-2	CHASSIS ASSY, MECHANICAL	
810	3-977-518-02	PLATE, LIMITER, FL		826	3-977-468-01	SHAFT, CAPSTAN BRAKE	
811	3-977-516-01	HOLDER, FL SLIDER		827	3-977-467-02	SPRING, CAP BRAKE	
812	3-977-877-01	PLATE, RETAINER		828	X-3947-583-1	BRAKE ASSY, CAPSTAN	
813	3-977-504-01	GEAR, CLUTCH		829	3-977-489-01	ARM, TG1 DRIVING	
814	X-3947-585-1	GEAR ASSY, PULLEY		830	A-6759-616-A	GEAR BLOCK ASSY, LOADING (S)	
815	3-977-510-01	BELT, RUBBER		M902	1-698-971-11	MOTOR, DC (CAPSTAN)	
816	3-977-440-01	WASHER, STOPPER		M903	X-3947-577-1	MOTOR ASSY, CAM	

8-2. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
 - XX and -X mean standardized parts, so they may have some difference from the original one.
 - RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
 - CAPACITORS
uF: μ F
 - COILS
uH: μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
*	A-6791-588-A	DM-76 BOARD, COMPLETE (ED3/ED6/ED7/EZ4/EZ7)						< SWITCH >			
*	A-6791-586-A	DM-76 BOARD, COMPLETE (ED4/ED5) ***** (Ref.No. 1,000 Series)				S450	1-571-977-11	SWITCH, TACTIL (FF)			
						S452	1-571-977-11	SWITCH, TACTIL (PLAY)			
						S453	1-571-977-11	SWITCH, TACTIL (STOP)			
						S455	1-571-977-11	SWITCH, TACTIL (REW)			
		< CONNECTOR >									
CN451	1-774-471-41	CONNECTOR, FFC/FPC 5P (ED4/ED5)				*	A-6791-592-A	MA-323 BOARD, COMPLETE (ED1)			
CN452	1-691-066-21	HOUSING, CONNECTOR 7P				*	A-6791-593-A	MA-323 BOARD, COMPLETE (ED2)			
		< RESISTOR >				*	A-6791-576-A	MA-323 BOARD, COMPLETE (ED3)			
						*	A-6791-599-A	MA-323 BOARD, COMPLETE (ED4)			
R442	1-216-053-00	METAL CHIP 1.5K 5% 1/10W				*	A-6791-579-A	MA-323 BOARD, COMPLETE (ED5)			
R443	1-216-057-00	METAL CHIP 2.2K 5% 1/10W				*	A-6791-584-A	MA-323 BOARD, COMPLETE (ED6)			
R444	1-216-295-00	METAL CHIP 0 5% 1/10W				*	A-6791-578-A	MA-323 BOARD, COMPLETE (ED7FS)			
R445	1-216-053-00	METAL CHIP 1.5K 5% 1/10W				*	A-6791-580-A	MA-323 BOARD, COMPLETE (ED7MI)			
R446	1-216-053-00	METAL CHIP 1.5K 5% 1/10W				*	A-6791-581-A	MA-323 BOARD, COMPLETE (ED7MN)			
						*	A-6791-594-A	MA-323 BOARD, COMPLETE (EZ1)			
R447	1-216-057-00	METAL CHIP 2.2K 5% 1/10W				*	A-6791-573-A	MA-323 BOARD, COMPLETE (EZ4)			
		< SWITCH >				*	A-6791-574-A	MA-323 BOARD, COMPLETE (EZ7AS)			
						*	A-6791-590-A	MA-323 BOARD, COMPLETE (EZ7NZ) ***** (Ref.No. 2,000 Series)			
S441	1-762-196-21	SWITCH, TACT (EJECT)									
S442	1-762-196-21	SWITCH, TACT (REW) (ED4/ED5)									
S443	1-762-196-21	SWITCH, TACT (FF) (ED4/ED5)									
S444	1-762-196-21	SWITCH, TACT (PAUSE)				*	3-960-273-01	SPACER, TOP END			
S445	1-762-196-21	SWITCH, TACT (REC)				*	3-960-274-01	SPACER, LED			
						*	3-966-865-01	BASE, INDICATION TUBE			
S447	1-762-196-21	SWITCH, TACT (REW) (ED3/ED6/ED7/EZ4/EZ7)									
S448	1-762-196-21	SWITCH, TACT (FF) (ED3/ED6/ED7/EZ4/EZ7)						< CAPACITOR >			
S449	1-762-196-21	SWITCH, TACT (STOP)(ED3/ED6/ED7/EZ4/EZ7)									
S450	1-762-196-21	SWITCH, TACT (PLAY)(ED3/ED6/ED7/EZ4/EZ7)				C100	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V			
						C101	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V			
						C102	1-163-251-11	CERAMIC CHIP 100PF 5% 50V			
						C103	1-163-251-11	CERAMIC CHIP 100PF 5% 50V			
						C104	1-128-057-11	ELECT 330uF 20% 6.3V			
						C106	1-124-589-11	ELECT 47uF 20% 16V			
						C108	1-163-259-91	CERAMIC CHIP 220PF 5% 50V			
						C109	1-124-589-11	ELECT 47uF 20% 16V			
CN452	1-691-066-21	HOUSING, CONNECTOR 7P				C111	1-124-589-11	ELECT 47uF 20% 16V (ED1/ED2/ED3/EZ1)			
		< RESISTOR >									
						C112	1-104-905-11	CAPACITOR 0.22F 5.5V			
R451	1-216-053-00	METAL CHIP 1.5K 5% 1/10W				C113	1-163-253-11	CERAMIC CHIP 120PF 5% 50V			
R452	1-216-053-00	METAL CHIP 1.5K 5% 1/10W				C114	1-124-248-00	ELECT 22uF 20% 35V			
R453	1-216-057-00	METAL CHIP 2.2K 5% 1/10W				C115	1-126-157-11	ELECT 10uF 20% 16V			
						C116	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V			
*	A-6794-527-A	DS-80 BOARD, COMPLETE (ED1/ED2/EZ1) ***** (Ref.No. 2,000 Series)									
		< CONNECTOR >									
CN452	1-691-066-21	HOUSING, CONNECTOR 7P									
		< RESISTOR >									
R451	1-216-053-00	METAL CHIP 1.5K 5% 1/10W									
R452	1-216-053-00	METAL CHIP 1.5K 5% 1/10W									
R453	1-216-057-00	METAL CHIP 2.2K 5% 1/10W									

Ref. No.	Part No.	Description	Remark		
C117	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C119	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
			(ED4/ED5/ED6/ED7)		
C120	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C121	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C122	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C123	1-126-925-11	ELECT	470uF	20%	10V
C124	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C125	1-124-589-11	ELECT	47uF	20%	16V
C126	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C127	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
			(ED1/ED2/ED3/EZ1)		
C128	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C129	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C131	1-128-499-11	ELECT	220uF	20%	16V
C133	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C134	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C136	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C137	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C138	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C139	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C142	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C171	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C172	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C173	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C174	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C175	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C176	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C177	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C178	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C180	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C182	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C185	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C200	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C201	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C203	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C204	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C205	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C206	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C207	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C208	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C209	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C210	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C212	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C213	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C214	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C215	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C216	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C217	1-163-089-00	CERAMIC CHIP	6PF		50V
C218	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C219	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C220	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C221	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C222	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C223	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C224	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C225	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C226	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C227	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C228	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V

Ref. No.	Part No.	Description	Remark		
C229	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
			(ED4/ED5/ED6/ED7/EZ4/EZ7)		
C230	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
			(ED1/ED2/ED3/EZ1)		
C231	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C232	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C233	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C234	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C235	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C236	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C237	1-126-157-11	ELECT	10uF	20%	16V
C238	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C239	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C240	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C241	1-126-157-11	ELECT	10uF	20%	16V
C242	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C243	1-126-157-11	ELECT	10uF	20%	16V
C244	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C245	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C246	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C248	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C249	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C250	1-126-157-11	ELECT	10uF	20%	16V
C251	1-126-157-11	ELECT	10uF	20%	16V
C252	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C253	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C254	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C255	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
			(ED1/ED2/ED3/EZ1)		
C255	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
			(ED4/ED5/ED6/ED7/EZ4/EZ7)		
C256	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
			(ED1/ED2/ED3/EZ1)		
C257	1-163-087-00	CERAMIC CHIP	4PF		50V
C258	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
			(ED1/ED2/ED3/ED4/ED5/ED6/ED7)		
C259	1-164-232-11	CERAMIC CHIP	0.01uF		50V
			(ED4/ED5/ED6/ED7FS/ED7MN)		
C260	1-164-232-11	CERAMIC CHIP	0.01uF		50V
			(ED3/ED4/ED5/ED6/ED7)		
C261	1-164-232-11	CERAMIC CHIP	0.01uF		50V
			(ED3/ED4/ED5/ED6/ED7)		
C262	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C263	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
			(ED1/ED2/ED3/ED4/ED5/ED6/ED7)		
C264	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C265	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C266	1-117-720-11	CERAMIC CHIP	4.7uF		10V
			(ED3/ED4/ED5/ED6/ED7)		
C302	1-126-157-11	ELECT	10uF	20%	16V
C303	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C304	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C305	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C307	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C308	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C309	1-126-157-11	ELECT	10uF	20%	16V
C310	1-126-157-11	ELECT	10uF	20%	16V
C311	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C312	1-137-370-11	FILM	0.01uF	5%	50V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C313	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	C363	1-216-296-00	METAL CHIP	0	5%	1/8W
C314	1-124-589-11	ELECT	47uF	20%	16V						(ED6/ED7/EZ7)
C315	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C364	1-216-296-00	METAL CHIP	0	5%	1/8W
C316	1-126-160-11	ELECT	1uF	20%	50V						(ED6/ED7/EZ7)
C317	1-126-160-11	ELECT	1uF	20%	50V	C365	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
C318	1-126-163-11	ELECT	4.7uF	20%	50V						(ED6/ED7/EZ7)
C319	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	C366	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
											(ED6/ED7/EZ7)
C321	1-124-248-00	ELECT	22uF	20%	35V	C367	1-216-296-00	METAL CHIP	0	5%	1/8W
C322	1-163-038-00	CERAMIC CHIP	0.1uF		25V						(ED6/ED7/EZ7)
C323	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	C368	1-216-296-00	METAL CHIP	0	5%	1/8W
C324	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V						(ED6/ED7/EZ7)
C325	1-104-913-11	TANTAL. CHIP	10uF	20%	16V	C369	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
					(EXCEPT EZ7)						(ED6/ED7/EZ7)
C326	1-126-160-11	ELECT	1uF	20%	50V	C370	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
					(ED3/ED4/ED5)						(ED6/ED7/EZ7)
C327	1-126-160-11	ELECT	1uF	20%	50V	C371	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
					(ED3/ED4/ED5)						(ED6/ED7/EZ7)
C328	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C372	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
					(ED3/ED4/ED5)						(ED6/ED7/EZ7)
C330	1-126-160-11	ELECT	1uF	20%	50V	C373	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
					(ED3/ED4/ED5)						(ED6/ED7/EZ7)
C331	1-104-697-11	FILM	0.047uF	5%	100V	C374	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
					(ED4/ED5/ED6/ED7)						(ED6/ED7/EZ7)
C332	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C375	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
					(ED4/ED5/ED6/ED7)						(ED6/ED7/EZ7)
C333	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	C376	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V
					(ED4/ED5/ED6/ED7)						(ED6/ED7/EZ7)
C335	1-126-933-11	ELECT	100uF	20%	16V	C377	1-124-589-11	ELECT	47uF	20%	16V
					(ED4/ED5/ED6/ED7)						(ED6/ED7/EZ7)
C336	1-124-589-11	ELECT	47uF	20%	16V	C378	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
											(ED6/ED7/EZ7)
C337	1-104-695-11	FILM	330PF	5%	100V	C379	1-135-179-21	TANTAL. CHIP	2.2uF	20%	16V
					(EZ4)						(ED6/ED7/EZ7)
C337	1-137-612-11	FILM	0.0068uF	5%	100V						
					(ED4/ED5/ED6/ED7)	C380	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C337	1-104-696-11	FILM	0.015uF	5%	100V						(ED6/ED7/EZ7)
					(ED1/ED2/ED3/EZ1/EZ7)	C381	1-124-589-11	ELECT	47uF	20%	16V
											(ED6/ED7/EZ7)
C338	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C382	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V
C339	1-164-232-11	CERAMIC CHIP	0.01uF		50V						(ED6/ED7/EZ7)
C340	1-164-232-11	CERAMIC CHIP	0.01uF		50V						
					(ED6/ED7/EZ7)	C383	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C342	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V						(ED6/ED7/EZ7)
					(ED6/ED7/EZ7)	C384	1-164-505-11	CERAMIC CHIP	2.2uF		16V
											(ED6/ED7/EZ7)
C346	1-117-720-11	CERAMIC CHIP	4.7uF		10V	C386	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
					(ED6/ED7/EZ7)						(ED6/ED7/EZ7)
C350	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V						
					(ED6/ED7/EZ7)	C391	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C352	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V						(ED6/ED7/EZ7)
					(ED6/ED7/EZ7)	C400	1-164-232-11	CERAMIC CHIP	0.01uF		50V
											(ED1/ED2/EZ1)
C353	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C401	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
					(ED6/ED7/EZ7)						
C357	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C402	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
					(ED6/ED7/EZ7)	C403	1-126-163-11	ELECT	4.7uF	20%	50V
C358	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C404	1-126-157-11	ELECT	10uF	20%	16V
					(ED6/ED7/EZ7)	C405	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C359	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C406	1-164-232-11	CERAMIC CHIP	0.01uF		50V
					(ED6/ED7/EZ7)						
C360	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	C407	1-126-163-11	ELECT	4.7uF	20%	50V
					(ED6/ED7/EZ7)	C408	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C361	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	C409	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
					(ED6/ED7/EZ7)	C410	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C362	1-109-982-11	CERAMIC CHIP	1uF	10%	10V						(ED5/ED7FS/ED7MI)
					(ED6/ED7/EZ7)						

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C411	1-163-227-11	CERAMIC CHIP (ED5/ED7FS/ED7MI)	10PF	0.5PF	50V	C604	1-124-589-11	ELECT	47uF	20%	16V
C411	1-163-229-11	CERAMIC CHIP (EXCEPT ED5/ED7FS/ED7MI)	12PF	5%	50V	C606	1-124-589-11	ELECT	47uF	20%	16V
C412	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V	C608	1-124-584-00	ELECT	100uF	20%	10V
C413	1-163-231-11	CERAMIC CHIP (ED5/ED7FS/ED7MI)	15PF	5%	50V	C609	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C417	1-124-589-11	ELECT	47uF	20%	16V	C612	1-126-967-11	ELECT	47uF	20%	16V
C418	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	C613	1-126-967-11	ELECT	47uF	20%	16V
C419	1-163-245-11	CERAMIC CHIP	56PF	5%	50V	C614	1-124-589-11	ELECT	47uF	20%	16V
C421	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C701	1-126-933-11	ELECT	100uF	20%	16V
C422	1-124-589-11	ELECT	47uF	20%	16V	C702	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C423	1-163-038-00	CERAMIC CHIP	0.1uF		25V	C703	1-126-967-11	ELECT	47uF	20%	16V
C424	1-124-589-11	ELECT	47uF	20%	16V	C704	1-126-933-11	ELECT	100uF	20%	16V
C501	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C705	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C502	1-163-231-11	CERAMIC CHIP (ED1/ED2/ED3/EZ1)	15PF	5%	50V	C706	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C504	1-163-037-11	CERAMIC CHIP (ED4/ED5/ED6/ED7/EZ4/EZ7)	0.022uF	10%	25V	C708	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (ED7MI)
C505	1-163-235-11	CERAMIC CHIP (ED4/ED5/ED6/ED7/EZ4/EZ7)	22PF	5%	50V	C710	1-126-963-11	ELECT	4.7uF	20%	50V
C505	1-163-113-00	CERAMIC CHIP (ED1/ED2/ED3/EZ1)	68PF	5%	50V	C712	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C506	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	C713	1-126-933-11	ELECT	100uF	20%	16V
C507	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	C714	1-126-933-11	ELECT	100uF	20%	16V
C508	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	C715	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C509	1-163-235-11	CERAMIC CHIP (ED4/ED5/ED6/ED7/EZ4/EZ7)	22PF	5%	50V	C716	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C509	1-163-113-00	CERAMIC CHIP (ED1/ED2/ED3/EZ1)	68PF	5%	50V	C717	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C510	1-163-037-11	CERAMIC CHIP (ED1/ED2/ED3/EZ1)	0.022uF	10%	25V	C718	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C511	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	C719	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C512	1-163-235-11	CERAMIC CHIP (ED4/ED5/ED6/ED7/EZ4/EZ7)	22PF	5%	50V	C721	1-126-767-11	ELECT	1000uF	20%	16V
C512	1-163-037-11	CERAMIC CHIP (ED1/ED2/ED3/EZ1)	0.022uF	10%	25V	C752	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C513	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	C753	1-126-967-11	ELECT	47uF	20%	16V (ED7MI/ED7MN/EZ7)
C514	1-163-037-11	CERAMIC CHIP (ED4/ED5/ED6/ED7/EZ4/EZ7)	0.022uF	10%	25V	C757	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V (ED5/ED7FS/ED7MI)
C515	1-163-235-11	CERAMIC CHIP (ED4/ED5/ED6/ED7/EZ4/EZ7)	22PF	5%	50V	C902	1-126-935-11	ELECT	470uF	20%	6.3V
C515	1-163-037-11	CERAMIC CHIP (ED1/ED2/ED3/EZ1)	0.022uF	10%	25V	C904	1-126-967-11	ELECT	47uF	20%	16V
C516	1-163-037-11	CERAMIC CHIP (ED4/ED5/ED6/ED7/EZ4/EZ7)	0.022uF	10%	25V	C906	1-126-160-11	ELECT	1uF	20%	50V
C517	1-163-037-11	CERAMIC CHIP (ED4/ED5/ED6/ED7/EZ4/EZ7)	0.022uF	10%	25V	C907	1-126-160-11	ELECT	1uF	20%	50V
C518	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C908	1-126-160-11	ELECT	1uF	20%	50V
C519	1-124-584-00	ELECT	100uF	20%	10V	C909	1-126-160-11	ELECT	1uF	20%	50V
C520	1-117-720-11	CERAMIC CHIP	4.7uF		10V	C911	1-124-589-11	ELECT	47uF	20%	16V
C521	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	< CONNECTOR >					
C522	1-163-038-00	CERAMIC CHIP	0.1uF		25V	* CN101	1-568-954-11	PIN, CONNECTOR 5P (ED4/ED5/ED6/ED7/EZ4/EZ7)			
C523	1-124-584-00	ELECT	100uF	20%	10V	CN102	1-779-723-11	CONNECTOR, BOARD TO BOARD 9P			
C524	1-117-720-11	CERAMIC CHIP	4.7uF		10V	* CN103	1-766-716-11	CONNECTOR, BOARD TO BOARD 3P			
C526	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	CN104	1-784-486-11	CONNECTOR, FFC/FPC 7P (ED1/ED2/ED3/EZ1)			
C527	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	CN105	1-784-484-11	CONNECTOR, FFC/FPC 5P (ED3/ED4/ED5/ED6/ED7/EZ4/EZ7)			
C529	1-164-232-11	CERAMIC CHIP	0.01uF		50V	CN161	1-506-468-11	PIN, CONNECTOR 3P			
C600	1-126-163-11	ELECT	4.7uF	20%	50V	CN301	1-506-469-11	PIN, CONNECTOR 4P			
C601	1-124-248-00	ELECT	22uF	20%	35V	CN302	1-506-468-11	PIN, CONNECTOR 3P			
C602	1-164-232-11	CERAMIC CHIP	0.01uF		50V	CN303	1-573-843-11	CONNECTOR, BOARD TO BOARD 11P (ED3/ED7FS)			
C603	1-124-589-11	ELECT	47uF	20%	16V	* CN341	1-560-890-00	PIN, CONNECTOR 2P (ED6/ED7/EZ7)			
						CN423	1-766-278-11	PIN, CONNECTOR (PC BOARD) 5P (ED4/ED5/ED6/ED7FS/ED7MN)			
						CN424	1-784-486-11	CONNECTOR, FFC/FPC 7PI			
						* CN501	1-560-892-00	PIN, CONNECTOR 4P			
						CN502	1-563-585-11	CONNECTOR, FLEXIBLE 8P (ED1/ED2/ED3/ED4/ED5/EZ1/EZ4)			
						CN502	1-784-492-11	CONNECTOR, FFC/FPC 13P (ED6/ED7/EZ7)			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CN600	1-784-946-11	CONNECTOR, BOARD TO BOARD 9P (ED1/ED2/EZ1)		IC202	8-759-479-52	IC MSM7470-79MS-KR1 (EZ1/EZ4/EZ7)	
* CN600	1-568-936-11	PIN, CONNECTOR 9P (ED3/ED4/ED5/ED6/ED7/EZ4/EZ7)		IC203	8-759-295-66	IC BA7653AF-E2 (ED3/ED4/ED5/ED6/ED7)	
CN751	1-691-170-11	PIN, CONNECTOR 13P (ED7MI/ED7MN/EZ7NZ)		IC301	8-759-526-64	IC NJM2521M(Te2) (ED3/ED4/ED5)	
* CN901	1-568-955-11	PIN, CONNECTOR 6P (ED3/ED4/ED5/ED6/ED7)		IC340	8-759-486-92	IC LA7256 (ED6/ED7/EZ7)	
		< JACK >		IC360	8-759-486-64	IC TDA9615H/N1,557 (ED6/ED7/EZ7)	
CNJ901	1-779-010-11	JACK, PIN 4P (LINE-1 IN/LINE OUT) (ED1/ED2/EZ1/EZ4)		IC400	8-742-042-00	HYB IC SBX1986-51 (ED1/ED2/EZ1)	
CNJ901	1-779-012-21	JACK, PIN 5P (LINE-1 IN/LINE OUT) (ED3)		IC420	8-759-366-44	IC uPD16312GB-3B4	
CNJ901	1-779-012-11	JACK, PIN 5P (LINE-1 IN/LINE OUT) (ED4/ED5)		IC501	8-759-352-17	IC HA118195NT(ED4/ED5/ED6/ED7/EZ4/EZ7)	
				IC501	8-759-357-84	IC HA118295NT (ED1/ED2/ED3/EZ1)	
CNJ901	1-779-011-11	JACK, PIN 6P (LINE-1 IN/LINE OUT) (ED6/ED7/EZ7)		IC600	8-759-438-18	IC PQ12RD08	
		< DIODE >		IC601	8-759-701-56	IC NJM78M05FA	
D102	8-719-048-26	DIODE GL528V1		IC602	8-759-358-38	IC NJM78M05DLA(Te1)	
D103	8-719-200-82	DIODE 11ES2		IC750	1-475-743-11	IC STEREO MODULE, GERMAN (MPX-574) (EZ7AS)	
D104	8-719-200-82	DIODE 11ES2					
D105	8-719-054-09	DIODE MPG5304S (ON/STANDBY) (ED1/ED2/EZ1)		IC901	8-759-454-62	IC uPC4558G2-E2	
						< JUMPER RESISTOR >	
D106	8-719-911-19	DIODE 1SS119		JR001	1-216-295-00	METAL CHIP 0 5% 1/10W	
D130	8-719-200-82	DIODE 11ES2		JR002	1-216-295-00	METAL CHIP 0 5% 1/10W	
D163	8-719-200-82	DIODE 11ES2		JR003	1-216-295-00	METAL CHIP 0 5% 1/10W	
D164	8-719-200-82	DIODE 11ES2		JR004	1-216-295-00	METAL CHIP 0 5% 1/10W	
D165	8-719-200-82	DIODE 11ES2		JR005	1-216-295-00	METAL CHIP 0 5% 1/10W	
D201	8-719-911-19	DIODE 1SS119 (ED4/ED5/ED6/ED7/EZ4/EZ7)		JR006	1-216-295-00	METAL CHIP 0 5% 1/10W	
D305	8-719-109-93	DIODE RD6.2ES-B2		JR007	1-216-295-00	METAL CHIP 0 5% 1/10W	
D306	8-719-109-93	DIODE RD6.2ES-B2		JR008	1-216-295-00	METAL CHIP 0 5% 1/10W	
D307	8-719-109-93	DIODE RD6.2ES-B2		JR009	1-216-295-00	METAL CHIP 0 5% 1/10W	
D401	8-719-109-93	DIODE RD6.2ES-B2		JR010	1-216-295-00	METAL CHIP 0 5% 1/10W	
D402	8-719-911-19	DIODE 1SS119		JR011	1-216-295-00	METAL CHIP 0 5% 1/10W	
D403	8-719-911-19	DIODE 1SS119		JR012	1-216-295-00	METAL CHIP 0 5% 1/10W	
D600	8-719-911-19	DIODE 1SS119		JR013	1-216-295-00	METAL CHIP 0 5% 1/10W	
D601	8-719-911-19	DIODE 1SS119		JR014	1-216-295-00	METAL CHIP 0 5% 1/10W	
D602	8-719-109-84	DIODE RD5.1ES-B1		JR015	1-216-295-00	METAL CHIP 0 5% 1/10W	
D603	8-719-200-82	DIODE 11ES2		JR016	1-216-295-00	METAL CHIP 0 5% 1/10W	
D604	8-719-200-82	DIODE 11ES2		JR018	1-216-295-00	METAL CHIP 0 5% 1/10W	
D701	8-719-109-84	DIODE RD5.1ES-B1		JR019	1-216-295-00	METAL CHIP 0 5% 1/10W	
D702	8-719-911-19	DIODE 1SS119		JR020	1-216-295-00	METAL CHIP 0 5% 1/10W	
D704	8-719-150-92	DIODE RD33ES-T1B		JR021	1-216-295-00	METAL CHIP 0 5% 1/10W	
D908	8-719-109-93	DIODE RD6.2ES-B2		JR022	1-216-295-00	METAL CHIP 0 5% 1/10W	
D909	8-719-109-93	DIODE RD6.2ES-B2		JR023	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< FERRITE BEAD >		JR024	1-216-295-00	METAL CHIP 0 5% 1/10W	
FB701	1-410-397-21	FERRITE BEAD INDUCTOR		JR025	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< IC >		JR026	1-216-295-00	METAL CHIP 0 5% 1/10W	
IC130	8-759-481-46	IC LB1943		JR027	1-216-295-00	METAL CHIP 0 5% 1/10W	
IC161	8-759-532-53	IC H8/3977R-MULT (ED1/ED3/ED4/ED5/ED6/ED7FS)		JR028	1-216-295-00	METAL CHIP 0 5% 1/10W	
IC161	8-759-535-21	IC H8/3977R-MULT-G (ED2/ED7MI/ED7MN)		JR029	1-216-295-00	METAL CHIP 0 5% 1/10W	
IC161	8-759-532-54	IC H8/3977R-PAL (EZ1/EZ4/EZ7)		JR030	1-216-295-00	METAL CHIP 0 5% 1/10W	
IC162	8-759-248-87	IC MM1256XF-BE		JR031	1-216-295-00	METAL CHIP 0 5% 1/10W	
IC163	8-759-432-32	IC ST24W02FM6TR		JR032	1-216-295-00	METAL CHIP 0 5% 1/10W	
IC201	8-759-479-50	IC HA118503FEB		JR033	1-216-295-00	METAL CHIP 0 5% 1/10W	
IC202	8-759-393-27	IC MSM7470-70MS-KR1 (ED1/ED2/ED3/ED4/ED5/ED6/ED7)		JR201	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR202	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR203	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR204	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR205	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR206	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR207	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR208	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR209	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR210	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR211	1-216-296-00	METAL CHIP 0 5% 1/8W	
				JR212	1-216-296-00	METAL CHIP 0 5% 1/8W	

Ref. No.	Part No.	Description	Remark
JR213	1-216-296-00	METAL CHIP	0 5% 1/8W
JR214	1-216-296-00	METAL CHIP	0 5% 1/8W
JR215	1-216-296-00	METAL CHIP	0 5% 1/8W
JR216	1-216-296-00	METAL CHIP	0 5% 1/8W
JR217	1-216-296-00	METAL CHIP	0 5% 1/8W
JR218	1-216-296-00	METAL CHIP	0 5% 1/8W
JR219	1-216-296-00	METAL CHIP	0 5% 1/8W
JR220	1-216-296-00	METAL CHIP	0 5% 1/8W
JR221	1-216-296-00	METAL CHIP	0 5% 1/8W
JR222	1-216-296-00	METAL CHIP	0 5% 1/8W
JR223	1-216-296-00	METAL CHIP	0 5% 1/8W
JR224	1-216-296-00	METAL CHIP	0 5% 1/8W
JR225	1-216-296-00	METAL CHIP	0 5% 1/8W
JR226	1-216-296-00	METAL CHIP	0 5% 1/8W
JR227	1-216-296-00	METAL CHIP	0 5% 1/8W
JR228	1-216-296-00	METAL CHIP	0 5% 1/8W
JR229	1-216-296-00	METAL CHIP	0 5% 1/8W
JR230	1-216-296-00	METAL CHIP	0 5% 1/8W
JR231	1-216-296-00	METAL CHIP	0 5% 1/8W
JR232	1-216-296-00	METAL CHIP	0 5% 1/8W
JR233	1-216-296-00	METAL CHIP	0 5% 1/8W
JR234	1-216-296-00	METAL CHIP	0 5% 1/8W
JR235	1-216-296-00	METAL CHIP	0 5% 1/8W
JR236	1-216-296-00	METAL CHIP	0 5% 1/8W
JR237	1-216-296-00	METAL CHIP	0 5% 1/8W
JR238	1-216-296-00	METAL CHIP	0 5% 1/8W
JR239	1-216-296-00	METAL CHIP	0 5% 1/8W
JR240	1-216-296-00	METAL CHIP	0 5% 1/8W
JR241	1-216-296-00	METAL CHIP	0 5% 1/8W
JR242	1-216-296-00	METAL CHIP	0 5% 1/8W
JR243	1-216-296-00	METAL CHIP	0 5% 1/8W
JR244	1-216-296-00	METAL CHIP	0 5% 1/8W
JR245	1-216-296-00	METAL CHIP	0 5% 1/8W
JR246	1-216-296-00	METAL CHIP	0 5% 1/8W
JR247	1-216-296-00	METAL CHIP	0 5% 1/8W
JR248	1-216-296-00	METAL CHIP	0 5% 1/8W
JR249	1-216-296-00	METAL CHIP	0 5% 1/8W
JR250	1-216-296-00	METAL CHIP	0 5% 1/8W
JR251	1-216-296-00	METAL CHIP	0 5% 1/8W
JR252	1-216-296-00	METAL CHIP	0 5% 1/8W
JR253	1-216-296-00	METAL CHIP	0 5% 1/8W
JS103	1-216-295-00	METAL CHIP	0 5% 1/10W
JS104	1-216-295-00	METAL CHIP	0 5% 1/10W
JS111	1-216-295-00	METAL CHIP	0 5% 1/10W
JS114	1-216-295-00	METAL CHIP	0 5% 1/10W
JS201	1-216-295-00	METAL CHIP	0 5% 1/10W
JS202	1-216-295-00	METAL CHIP	0 5% 1/10W
JS204	1-216-295-00	METAL CHIP	0 5% 1/10W
JS302	1-216-295-00	METAL CHIP	0 5% 1/10W
JS308	1-216-295-00	METAL CHIP	0 5% 1/10W
JS309	1-216-295-00	METAL CHIP	0 5% 1/10W
JS360	1-216-296-00	METAL CHIP	0 5% 1/8W
JS364	1-216-296-00	METAL CHIP	0 5% 1/8W

Ref. No.	Part No.	Description	Remark
JS364	1-216-295-00	METAL CHIP	0 5% 1/10W
JS400	1-216-295-00	METAL CHIP	0 5% 1/10W
JS401	1-216-295-00	METAL CHIP	0 5% 1/10W
JS404	1-216-295-00	METAL CHIP	0 5% 1/10W
JS603	1-216-296-00	METAL CHIP	0 5% 1/8W
JS604	1-216-296-00	METAL CHIP	0 5% 1/8W
JS700	1-216-296-00	METAL CHIP	0 5% 1/8W
JS701	1-216-295-00	METAL CHIP	0 5% 1/10W
JS702	1-216-295-00	METAL CHIP	0 5% 1/10W
JS703	1-216-295-00	METAL CHIP	0 5% 1/10W
JS704	1-216-295-00	METAL CHIP	0 5% 1/10W
JS705	1-216-296-00	METAL CHIP	0 5% 1/8W
JS706	1-216-295-00	METAL CHIP	0 5% 1/10W
JS708	1-216-295-00	METAL CHIP	0 5% 1/10W
JS712	1-216-296-00	METAL CHIP	0 5% 1/8W
JS713	1-216-295-00	METAL CHIP	0 5% 1/10W
JS714	1-216-296-00	METAL CHIP	0 5% 1/8W
JS717	1-216-295-00	METAL CHIP	0 5% 1/10W
JS718	1-216-295-00	METAL CHIP	0 5% 1/10W
JS719	1-216-295-00	METAL CHIP	0 5% 1/10W
JS750	1-216-295-00	METAL CHIP	0 5% 1/10W
JS751	1-216-295-00	METAL CHIP	0 5% 1/10W
JS756	1-216-295-00	METAL CHIP	0 5% 1/10W
JS758	1-216-295-00	METAL CHIP	0 5% 1/10W
JS759	1-216-295-00	METAL CHIP	0 5% 1/10W
JS760	1-216-295-00	METAL CHIP	0 5% 1/10W
JS763	1-216-295-00	METAL CHIP	0 5% 1/10W
JS764	1-216-295-00	METAL CHIP	0 5% 1/10W
JS900	1-216-295-00	METAL CHIP	0 5% 1/10W
JS901	1-216-295-00	METAL CHIP	0 5% 1/10W
L164	1-410-513-11	INDUCTOR	22uH (ED1/ED2/ED3/EZ1)
L166	1-410-513-11	INDUCTOR	22uH
L167	1-410-501-11	INDUCTOR	2.2uH
L168	1-410-513-11	INDUCTOR	22uH
L203	1-410-525-11	INDUCTOR	220uH

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L204	1-410-501-11	INDUCTOR	2.2uH	Q205	8-729-421-19	TRANSISTOR UN2213 (ED1/ED2/ED3/ED4/ED5/ED6/ED7)	
L205	1-410-510-11	INDUCTOR	12uH	Q207	8-729-421-19	TRANSISTOR UN2213	
L206	1-410-520-11	INDUCTOR	82uH (ED4/ED5/ED6/ED7/EZ4/EZ7)	Q208	8-729-010-29	TRANSISTOR MSD601-RST1	
L207	1-410-509-11	INDUCTOR	10uH	Q209	8-729-010-29	TRANSISTOR MSD601-RST1	
L208	1-410-520-11	INDUCTOR	82uH (ED1/ED2/ED3/EZ1)	Q210	8-729-421-19	TRANSISTOR UN2213	
L209	1-410-521-11	INDUCTOR	100uH	Q211	8-729-421-19	TRANSISTOR UN2213	
L211	1-414-939-21	INDUCTOR	68uH	Q300	8-729-421-19	TRANSISTOR UN2213	
L212	1-410-521-11	INDUCTOR	100uH	Q301	8-729-010-29	TRANSISTOR MSD601-RST1	
L213	1-410-525-11	INDUCTOR	220uH	Q302	8-729-010-29	TRANSISTOR MSD601-RST1	
L301	1-412-092-11	INDUCTOR	22mH	Q303	8-729-901-06	TRANSISTOR DTA144EK	
L302	1-410-456-11	INDUCTOR	12mH	Q305	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q	
L303	1-410-687-11	INDUCTOR	1.2mH	Q307	8-729-900-51	TRANSISTOR DTA114TK	
L330	1-410-120-11	INDUCTOR	1.2mH (ED4/ED5/ED6/ED7)	Q308	8-729-421-19	TRANSISTOR UN2213	
L341	1-414-940-21	INDUCTOR	100uH (ED6/ED7/EZ7)	Q309	8-729-421-19	TRANSISTOR UN2213 (ED4/ED5/ED6/ED7/EZ4/EZ7)	
L400	1-410-511-11	INDUCTOR	15uH	Q310	8-729-900-51	TRANSISTOR DTA114TK	
L401	1-410-513-11	INDUCTOR	22uH	Q311	8-729-421-19	TRANSISTOR UN2213	
L501	1-414-940-21	INDUCTOR	100uH	Q312	8-729-010-29	TRANSISTOR MSD601-RST1	
L502	1-414-940-21	INDUCTOR	100uH	Q330	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q (ED4/ED5/ED6/ED7)	
L600	1-414-938-21	INDUCTOR	47uH	Q331	8-729-900-51	TRANSISTOR DTA114TK (ED4/ED5/ED6/ED7)	
L601	1-410-509-11	INDUCTOR	10uH	Q332	8-729-010-29	TRANSISTOR MSD601-RST1	
L602	1-410-513-11	INDUCTOR	22uH	Q400	8-729-010-05	TRANSISTOR MSB709-RT1	
L701	1-410-501-11	INDUCTOR	2.2uH	Q401	8-729-421-19	TRANSISTOR UN2213	
L703	1-410-501-11	INDUCTOR	2.2uH	Q402	8-729-421-22	TRANSISTOR UN2211	
L704	1-410-501-11	INDUCTOR	2.2uH	Q410	8-729-010-29	TRANSISTOR MSD601-RST1	
L706	1-414-938-21	INDUCTOR	47uH	Q411	8-729-421-22	TRANSISTOR UN2211 (ED5/ED7FS/ED7MI)	
L751	1-410-509-11	INDUCTOR	10uH (ED7MI/ED7MN/EZ7)	Q412	8-729-424-08	TRANSISTOR UN2111 (ED4/ED5/ED7FS/ED7MI)	
< FLUORECENT INDICATOR >				Q501	8-729-230-49	TRANSISTOR 2SC2712-G	
ND420	1-517-734-11	TUBE, FLUORESCENT INDICATOR		Q600	8-729-140-93	TRANSISTOR 2SB733-34	
< PHOTO INTERRUPTER >				Q601	8-729-421-22	TRANSISTOR UN2211	
PH100	8-749-013-23	PHOTO INTERRUPTER GP3S120		Q602	8-729-018-99	TRANSISTOR 2SD2394-F	
PH101	8-749-013-23	PHOTO INTERRUPTER GP3S120		Q603	8-729-119-79	TRANSISTOR 2SC2785-FEK	
< IC LINK >				Q701	8-729-106-68	TRANSISTOR 2SD1615A-GP	
△PS100	1-533-586-31	LINK, IC 491.315 (0.315A)		Q753	8-729-010-05	TRANSISTOR MSB709-RT1 (ED7MN/EZ7)	
△PS301	1-533-586-31	LINK, IC 491.315 (0.315A)		Q901	8-729-010-05	TRANSISTOR MSB709-RT1	
△PS600	1-533-593-11	LINK, IC 491002 (2A)		< RESISTOR >			
△PS601	1-533-586-31	LINK, IC 491.315 (0.315A)		R100	1-216-089-00	METAL CHIP 47K 5% 1/10W	
< TRANSISTOR >				R101	1-216-041-00	METAL CHIP 470 5% 1/10W	
Q100	8-729-043-84	TRANSISTOR PT380F3		R102	1-249-437-11	CARBON 47K 5% 1/4W	
Q101	8-729-043-84	TRANSISTOR PT380F3		R103	1-216-085-00	METAL CHIP 33K 5% 1/10W	
Q102	8-729-281-53	TRANSISTOR 2SC1815-GR		R104	1-216-085-00	METAL CHIP 33K 5% 1/10W	
Q103	8-729-010-29	TRANSISTOR MSD601-RST1		R105	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
Q104	8-729-421-22	TRANSISTOR UN2211		R106	1-249-417-11	CARBON 1K 5% 1/4W F	
Q105	8-729-010-29	TRANSISTOR MSD601-RST1 (ED4/ED5/ED6/ED7)		R107	1-249-400-11	CARBON 39 5% 1/4W F	
Q201	8-729-421-19	TRANSISTOR UN2213 (ED4/ED5/ED6/ED7/EZ4/EZ7)		R108	1-249-400-11	CARBON 39 5% 1/4W F	
Q202	8-729-901-06	TRANSISTOR DTA144EK (ED4/ED5/ED6/ED7/EZ4/EZ7)		R109	1-247-807-31	CARBON 100 5% 1/4W	
Q203	8-729-424-46	TRANSISTOR UN211E		R110	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
Q204	8-729-421-19	TRANSISTOR UN2213 (ED1/ED2/ED3/ED4/ED5/ED6/ED7)		R111	1-216-073-00	METAL CHIP 10K 5% 1/10W	
				R112	1-216-073-00	METAL CHIP 10K 5% 1/10W	
				R113	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
				R114	1-216-049-00	METAL CHIP 1K 5% 1/10W	
				R115	1-216-049-00	METAL CHIP 1K 5% 1/10W	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R116	1-247-863-91	CARBON	22K	5%	1/4W	R158	1-216-081-00	METAL CHIP	22K	5%	1/10W (ED1/ED2/ED3/ED4/ED5/ED6/ED7)
R117	1-216-065-00	METAL CHIP	4.7K	5%	1/10W						
R118	1-216-049-00	METAL CHIP	1K	5%	1/10W						
R119	1-216-073-00	METAL CHIP	10K	5%	1/10W	R159	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R160	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R120	1-216-049-00	METAL CHIP	1K	5%	1/10W	R161	1-216-073-00	METAL CHIP	10K	5%	1/10W
R121	1-216-103-00	METAL CHIP	180K	5%	1/10W	R162	1-216-049-00	METAL CHIP	1K	5%	1/10W
R122	1-216-049-00	METAL CHIP	1K	5%	1/10W	R163	1-216-073-00	METAL CHIP	10K	5%	1/10W
R123	1-216-121-91	RES, CHIP	1M	5%	1/10W						
R124	1-216-037-00	METAL CHIP	330	5%	1/10W	R164	1-216-049-00	METAL CHIP	1K	5%	1/10W
						R169	1-249-417-11	CARBON	1K	5%	1/4W F
R125	1-216-037-00	METAL CHIP	330	5%	1/10W	R170	1-216-121-91	RES, CHIP	1M	5%	1/10W
R126	1-216-051-00	METAL CHIP	1.2K	5%	1/10W (ED1/EZ1)	R171	1-216-049-00	METAL CHIP	1K	5%	1/10W
R126	1-216-059-00	METAL CHIP	2.7K	5%	1/10W (ED2/EZ4)	R172	1-249-417-11	CARBON	1K	5%	1/4W F
						R173	1-249-417-11	CARBON	1K	5%	1/4W F
R126	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (ED5/EZ7AS)	R174	1-216-081-00	METAL CHIP	22K	5%	1/10W
R126	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (ED4/EZ7NZ)	R175	1-216-113-00	METAL CHIP	470K	5%	1/10W
R126	1-216-073-00	METAL CHIP	10K	5%	1/10W (ED3/ED7MI)	R176	1-216-089-00	METAL CHIP	47K	5%	1/10W
						R177	1-216-105-91	RES, CHIP	220K	5%	1/10W
R126	1-216-077-00	METAL CHIP	15K	5%	1/10W (ED6)	R178	1-216-089-00	METAL CHIP	47K	5%	1/10W
R126	1-216-081-00	METAL CHIP	22K	5%	1/10W (ED7MN)	R179	1-216-089-00	METAL CHIP	47K	5%	1/10W
R127	1-216-049-00	METAL CHIP	1K	5%	1/10W (ED3)	R180	1-216-089-00	METAL CHIP	47K	5%	1/10W
R127	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT ED3)	R181	1-249-413-11	CARBON	470	5%	1/4W F
						R183	1-249-413-11	CARBON	470	5%	1/4W F
R128	1-249-407-11	CARBON	150	5%	1/4W F (ED1/ED2/EZ1)	R186	1-216-049-00	METAL CHIP	1K	5%	1/10W
R129	1-216-049-00	METAL CHIP	1K	5%	1/10W	R187	1-216-049-00	METAL CHIP	1K	5%	1/10W
R130	1-216-085-00	METAL CHIP	33K	5%	1/10W	R188	1-249-417-11	CARBON	1K	5%	1/4W F
R131	1-216-085-00	METAL CHIP	33K	5%	1/10W	R189	1-216-041-00	METAL CHIP	470	5%	1/10W
						R191	1-216-089-00	METAL CHIP	47K	5%	1/10W
R132	1-216-089-00	METAL CHIP	47K	5%	1/10W	R192	1-216-089-00	METAL CHIP	47K	5%	1/10W
R133	1-249-429-11	CARBON	10K	5%	1/4W	R198	1-216-089-00	METAL CHIP	47K	5%	1/10W
R134	1-249-429-11	CARBON	10K	5%	1/4W	R199	1-249-413-11	CARBON	470	5%	1/4W F
R135	1-216-049-00	METAL CHIP	1K	5%	1/10W	R201	1-216-083-00	METAL CHIP	27K	5%	1/10W
R136	1-216-103-00	METAL CHIP	180K	5%	1/10W	R202	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
						R203	1-249-438-11	CARBON	56K	5%	1/4W
R137	1-216-089-00	METAL CHIP	47K	5%	1/10W (ED4/ED5/ED6/ED7)	R204	1-216-041-00	METAL CHIP	470	5%	1/10W
R138	1-249-413-11	CARBON	470	5%	1/4W F	R205	1-247-887-00	CARBON	220K	5%	1/4W
R139	1-249-413-11	CARBON	470	5%	1/4W F	R206	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R140	1-249-413-11	CARBON	470	5%	1/4W F	R207	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
						R208	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R141	1-216-073-00	METAL CHIP	10K	5%	1/10W	R209	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (ED4/ED5/ED6/ED7/EZ4/EZ7)
R142	1-216-021-00	METAL CHIP	68	5%	1/10W	R209	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (ED1/ED2/ED3/EZ1)
R143	1-216-053-00	METAL CHIP	1.5K	5%	1/10W						
R144	1-249-419-11	CARBON	1.5K	5%	1/4W F (ED1/ED2/EZ1)	R210	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (ED4/ED5/ED6/ED7/EZ4/EZ7)
						R211	1-247-807-31	CARBON	100	5%	1/4W
R145	1-249-421-11	CARBON	2.2K	5%	1/4W F (ED1/ED2/EZ1)	R212	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (ED4/ED5/ED6/ED7/EZ4/EZ7)
R146	1-216-059-00	METAL CHIP	2.7K	5%	1/10W						
R147	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	R213	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (ED1/ED2/ED3/EZ1)
R148	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	R214	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (ED4/ED5/ED6/ED7/EZ4/EZ7)
						R214	1-216-073-00	METAL CHIP	10K	5%	1/10W (ED1/ED2/ED3/EZ1)
R149	1-216-091-00	METAL CHIP	56K	5%	1/10W						
R151	1-216-073-00	METAL CHIP	10K	5%	1/10W	R215	1-259-880-11	CARBON	2.2M	5%	1/4W
R152	1-216-021-00	METAL CHIP	68	5%	1/10W	R216	1-216-089-00	METAL CHIP	47K	5%	1/10W
R153	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	R217	1-216-089-00	METAL CHIP	47K	5%	1/10W
R154	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	R218	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (ED4/ED5/ED6/ED7/EZ4/EZ7)
R155	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	R218	1-216-063-91	RES, CHIP	3.9K	5%	1/10W (ED1/ED2/ED3/EZ1)
R156	1-216-065-00	METAL CHIP	4.7K	5%	1/10W						
R157	1-216-065-00	METAL CHIP	4.7K	5%	1/10W						

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R219	1-216-089-00	METAL CHIP	47K	5%	1/10W	R330	1-216-083-00	METAL CHIP	27K	5%	1/10W
R220	1-216-089-00	METAL CHIP	47K	5%	1/10W						(ED4/ED5/ED6/ED7)
R221	1-247-807-31	CARBON	100	5%	1/4W	R331	1-216-295-00	METAL CHIP	0	5%	1/10W
											(ED4/ED5/ED6/ED7)
R222	1-216-041-00	METAL CHIP	470	5%	1/10W						
R223	1-216-295-00	METAL CHIP	0	5%	1/10W	R332	1-249-394-11	CARBON	12	5%	1/4W F
R224	1-216-073-00	METAL CHIP	10K	5%	1/10W						(ED4/ED5/ED6/ED7)
R225	1-249-417-11	CARBON	1K	5%	1/4W F	R333	1-216-049-00	METAL CHIP	1K	5%	1/10W
R226	1-216-295-00	METAL CHIP	0	5%	1/10W	R334	1-216-049-00	METAL CHIP	1K	5%	1/10W
						R335	1-216-073-00	METAL CHIP	10K	5%	1/10W
R227	1-216-295-00	METAL CHIP	0	5%	1/10W						
R228	1-216-295-00	METAL CHIP	0	5%	1/10W	R336	1-249-413-11	CARBON	470	5%	1/4W F
R229	1-216-073-00	METAL CHIP	10K	5%	1/10W	R344	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R230	1-216-081-00	METAL CHIP	22K	5%	1/10W						(ED6/ED7/EZ7)
R231	1-216-049-00	METAL CHIP	1K	5%	1/10W	R345	1-216-081-00	METAL CHIP	22K	5%	1/10W
											(ED6/ED7/EZ7)
R232	1-216-041-00	METAL CHIP	470	5%	1/10W						
R233	1-249-413-11	CARBON	470	5%	1/4W F	R346	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
					(ED3/ED4/ED5/ED6/ED7)						(ED6/ED7/EZ7)
R234	1-216-041-00	METAL CHIP	470	5%	1/10W	R347	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
					(ED4/ED5/ED6/ED7FS/ED7MN)						(ED6/ED7/EZ7)
R235	1-249-413-11	CARBON	470	5%	1/4W F	R348	1-216-033-00	METAL CHIP	220	5%	1/10W
R236	1-247-863-91	CARBON	22K	5%	1/4W						(ED6/ED7/EZ7)
R237	1-216-105-91	RES, CHIP	220K	5%	1/10W	R360	1-216-049-00	METAL CHIP	1K	5%	1/10W
R238	1-216-065-00	METAL CHIP	4.7K	5%	1/10W						(ED6/ED7/EZ7)
					(ED4/ED5/ED6/ED7/EZ4/EZ7)	R361	1-216-049-00	METAL CHIP	1K	5%	1/10W
											(ED6/ED7/EZ7)
R240	1-216-041-00	METAL CHIP	470	5%	1/10W	R362	1-216-295-00	METAL CHIP	0	5%	1/10W
R241	1-249-421-11	CARBON	2.2K	5%	1/4W F						(ED6/ED7/EZ7)
R242	1-216-113-00	METAL CHIP	470K	5%	1/10W						
R243	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	R368	1-216-133-00	METAL CHIP	3.3M	5%	1/10W
					(ED4/ED5/ED6/ED7/EZ4/EZ7)						(ED6/ED7/EZ7)
R301	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	R370	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R302	1-216-065-00	METAL CHIP	4.7K	5%	1/10W						(ED6/ED7/EZ7)
R303	1-216-083-00	METAL CHIP	27K	5%	1/10W	R371	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R304	1-216-093-00	METAL CHIP	68K	5%	1/10W						(ED6/ED7/EZ7)
					(ED1/ED2/ED3/EZ1/EZ4/EZ7)	R372	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
											(ED6/ED7/EZ7)
R304	1-216-097-91	RES, CHIP	100K	5%	1/10W	R378	1-216-083-00	METAL CHIP	27K	5%	1/10W
					(ED4/ED5/ED6/ED7)						(ED6/ED7/EZ7)
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W	R380	1-216-041-00	METAL CHIP	470	5%	1/10W
R306	1-216-047-91	RES, CHIP	820	5%	1/10W						(ED6/ED7/EZ7)
R307	1-216-047-91	RES, CHIP	820	5%	1/10W						
R308	1-216-089-00	METAL CHIP	47K	5%	1/10W	R381	1-216-041-00	METAL CHIP	470	5%	1/10W
R310	1-216-035-00	METAL CHIP	270	5%	1/10W						(ED6/ED7/EZ7)
R311	1-249-428-11	CARBON	8.2K	5%	1/4W F	R382	1-216-041-00	METAL CHIP	470	5%	1/10W
R312	1-216-081-00	METAL CHIP	22K	5%	1/10W						(ED6/ED7/EZ7)
R313	1-216-109-00	METAL CHIP	330K	5%	1/10W	R383	1-216-041-00	METAL CHIP	470	5%	1/10W
											(ED6/ED7/EZ7)
R314	1-216-063-91	RES, CHIP	3.9K	5%	1/10W	R384	1-216-091-00	METAL CHIP	56K	5%	1/10W
R315	1-249-389-11	CARBON	4.7	5%	1/4W F						(ED6/ED7/EZ7)
					(ED1/ED2/ED3/EZ1/EZ4/EZ7)	R385	1-216-091-00	METAL CHIP	56K	5%	1/10W
R315	1-249-395-11	CARBON	15	5%	1/4W F						(ED6/ED7/EZ7)
					(ED4/ED5/ED6/ED7)	R386	1-216-041-00	METAL CHIP	470	5%	1/10W
											(ED6/ED7/EZ7)
R316	1-216-295-00	METAL CHIP	0	5%	1/10W						
R317	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R387	1-216-041-00	METAL CHIP	470	5%	1/10W
R318	1-216-689-11	METAL CHIP	39K	0.5%	1/10W						(ED6/ED7/EZ7)
R319	1-216-041-00	METAL CHIP	470	5%	1/10W	R389	1-216-073-00	METAL CHIP	10K	5%	1/10W
R320	1-216-073-00	METAL CHIP	10K	5%	1/10W						(ED6/ED7/EZ7)
						R400	1-216-113-00	METAL CHIP	470K	5%	1/10W
R321	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R322	1-216-097-91	RES, CHIP	100K	5%	1/10W	R401	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R323	1-216-097-91	RES, CHIP	100K	5%	1/10W	R402	1-216-049-00	METAL CHIP	1K	5%	1/10W
R326	1-249-429-11	CARBON	10K	5%	1/4W	R403	1-216-041-00	METAL CHIP	470	5%	1/10W
R327	1-216-073-00	METAL CHIP	10K	5%	1/10W	R404	1-249-429-11	CARBON	10K	5%	1/4W
						R405	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R328	1-216-047-91	RES, CHIP	820	5%	1/10W						
R329	1-216-073-00	METAL CHIP	10K	5%	1/10W	R406	1-216-041-00	METAL CHIP	470	5%	1/10W

Ref. No.	Part No.	Description	Remark
R407	1-216-295-00	METAL CHIP	0 5% 1/10W
R408	1-247-807-31	CARBON	100 5% 1/4W
R410	1-216-103-00	METAL CHIP	180K 5% 1/10W
R411	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R412	1-249-425-11	CARBON	4.7K 5% 1/4W F
R414	1-216-121-91	RES, CHIP	1M 5% 1/10W
R421	1-216-049-00	METAL CHIP	1K 5% 1/10W
R422	1-216-049-00	METAL CHIP	1K 5% 1/10W
R423	1-216-049-00	METAL CHIP	1K 5% 1/10W
R424	1-216-049-00	METAL CHIP	1K 5% 1/10W
R425	1-216-085-00	METAL CHIP	33K 5% 1/10W
R426	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R427	1-216-041-00	METAL CHIP	470 5% 1/10W
R428	1-216-041-00	METAL CHIP	470 5% 1/10W
R429	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R501	1-216-037-00	METAL CHIP	330 5% 1/10W (ED4/ED5/ED6/ED7/EZ4/EZ7)
R501	1-216-045-00	METAL CHIP	680 5% 1/10W (ED1/ED2/ED3/EZ1)
R502	1-216-037-00	METAL CHIP	330 5% 1/10W (ED4/ED5/ED6/ED7/EZ4/EZ7)
R503	1-216-295-00	METAL CHIP	0 5% 1/10W
R504	1-216-295-00	METAL CHIP	0 5% 1/10W
R505	1-216-295-00	METAL CHIP	0 5% 1/10W
R506	1-216-295-00	METAL CHIP	0 5% 1/10W
R507	1-216-051-00	METAL CHIP	1.2K 5% 1/10W (ED1/ED2/ED3/EZ1)
R507	1-216-053-00	METAL CHIP	1.5K 5% 1/10W (ED4/ED5/ED6/ED7/EZ4/EZ7)
R508	1-216-049-00	METAL CHIP	1K 5% 1/10W
R509	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R510	1-216-073-00	METAL CHIP	10K 5% 1/10W
R511	1-216-081-00	METAL CHIP	22K 5% 1/10W
R512	1-216-081-00	METAL CHIP	22K 5% 1/10W
R513	1-216-049-00	METAL CHIP	1K 5% 1/10W
R514	1-216-077-00	METAL CHIP	15K 5% 1/10W
R515	1-216-077-00	METAL CHIP	15K 5% 1/10W
R516	1-216-073-00	METAL CHIP	10K 5% 1/10W
R517	1-216-073-00	METAL CHIP	10K 5% 1/10W
R518	1-216-025-91	RES, CHIP	100 5% 1/10W (ED1/ED2/ED3/EZ1)
R600	1-249-417-11	CARBON	1K 5% 1/4W F
R601	1-216-430-11	METAL OXIDE	390 5% 1W F
R602	1-249-417-11	CARBON	1K 5% 1/4W F
R603	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R604	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R605	1-249-414-11	CARBON	560 5% 1/4W F
R606	1-247-815-91	CARBON	220 5% 1/4W
R607	1-247-815-91	CARBON	220 5% 1/4W
R608	1-215-908-00	METAL OXIDE	33 5% 3W F
R609	1-215-857-11	METAL OXIDE	10 5% 1W F
R610	1-249-417-11	CARBON	1K 5% 1/4W F
R701	1-216-041-00	METAL CHIP	470 5% 1/10W
R702	1-216-041-00	METAL CHIP	470 5% 1/10W
R703	1-216-049-00	METAL CHIP	1K 5% 1/10W
R704	1-216-049-00	METAL CHIP	1K 5% 1/10W
R705	1-249-417-11	CARBON	1K 5% 1/4W F
R707	1-212-893-00	FUSIBLE	330 5% 1/4W F
R708	1-216-113-00	METAL CHIP	470K 5% 1/10W
R710	1-216-295-00	METAL CHIP	0 5% 1/10W

Ref. No.	Part No.	Description	Remark
R711	1-216-295-00	METAL CHIP	0 5% 1/10W
R712	1-216-295-00	METAL CHIP	0 5% 1/10W
R713	1-216-295-00	METAL CHIP	0 5% 1/10W
R714	1-216-295-00	METAL CHIP	0 5% 1/10W
R752	1-216-295-00	METAL CHIP	0 5% 1/10W (ED7MI/ED7MN/EZ7)
R755	1-216-049-00	METAL CHIP	1K 5% 1/10W (ED7MN/EZ7)
R758	1-216-295-00	METAL CHIP	0 5% 1/10W
R901	1-216-021-00	METAL CHIP	68 5% 1/10W
R902	1-249-407-11	CARBON	150 5% 1/4W F
R904	1-249-408-11	CARBON	180 5% 1/4W F
R905	1-216-025-91	RES, CHIP	100 5% 1/10W (ED4/ED5/ED6/ED7/EZ4/EZ7)
R906	1-216-021-00	METAL CHIP	68 5% 1/10W
R907	1-216-041-00	METAL CHIP	470 5% 1/10W
R908	1-216-041-00	METAL CHIP	470 5% 1/10W (ED6/ED7/EZ7)
R909	1-216-097-91	RES, CHIP	100K 5% 1/10W
R910	1-216-097-91	RES, CHIP	100K 5% 1/10W (ED6/ED7/EZ7)
R911	1-216-097-91	RES, CHIP	100K 5% 1/10W (ED6/ED7/EZ7)
R912	1-216-097-91	RES, CHIP	100K 5% 1/10W
R913	1-216-025-91	RES, CHIP	100 5% 1/10W (ED1/ED2/ED3/EZ1)
R927	1-216-295-00	METAL CHIP	0 5% 1/10W
< SWITCH >			
S100	1-771-155-11	SWITCH, ROTARY (CAM ENCODER)	
S101	1-762-108-11	SWITCH, PUSH (1 KEY) (REC PRF)	
S102	1-692-431-21	SWITCH, TACTILE (ON/STANDBY)	(ED1/ED2/EZ1)
S103	1-692-431-21	SWITCH, TACTILE (EJECT)	(ED1/ED2/EZ1)
S104	1-692-431-21	SWITCH, TACTILE (REC)	(ED1/ED2/EZ1)
S105	1-692-431-21	SWITCH, TACTILE (PROGRAM +)	(ED1/ED2/EZ1)
S106	1-692-431-21	SWITCH, TACTILE (EASY TIMER)	(ED1/ED2/EZ1)
S107	1-692-431-21	SWITCH, TACTILE (PAUSE)	(ED1/ED2/EZ1)
S108	1-692-431-21	SWITCH, TACTILE (PROGRAM -)	(ED1/ED2/EZ1)
S112	1-692-431-21	SWITCH, TACTILE (ONE TOUCH TUNING)	(ED3/ED4/ED5/ED6/ED7/EZ4/EZ7)
S113	1-692-431-21	SWITCH, TACTILE (SP/LP)	(ED3/ED4/ED5/ED6/ED7/EZ4/EZ7)
S114	1-571-308-11	SWITCH, SLIDE (NTSC PB)	(ED1/ED2/ED3/ED4/ED5/ED6/ED7)
S115	1-571-588-11	SWITCH, SLIDE (NTSC PB)	(EZ1EZ4/EZ7)
S116	1-692-431-21	SWITCH, TACTILE (PROGRAM +)	(ED3/ED4/ED5/ED6/ED7/EZ4/EZ7)
S117	1-692-431-21	SWITCH, TACTILE (EASY TIMER)	(ED3/ED4/ED5/ED6/ED7/EZ4/EZ7)
S118	1-692-431-21	SWITCH, TACTILE (COLOR SYSTEM)	
S119	1-692-431-21	SWITCH, TACTILE (PROGRAM -)	(ED3/ED4/ED5/ED6/ED7/EZ4/EZ7)
S120	1-692-431-21	SWITCH, TACTILE (ONE TOUCH TUNING)	(ED1/ED2/EZ1)

Ref. No.	Part No.	Description	Remark
< TRANSFORMER >			
T301	1-423-413-11	TRANSFORMER, BIAS OSCILLATION (ED4/ED5/ED6/ED7)	
T301	1-423-414-11	TRANSFORMER, BIAS OSCILLATION (ED1/ED2/ED3/EZ1/EZ4/EZ7)	
T302	1-423-415-11	TRANSFORMER, BIAS OSCILLATION (ED4/ED5/ED6/ED7)	
< TUNER >			
TU701	1-693-414-11	TUNER, MOD/IF SOLID TYPE (ED5/ED7FS/ED7MI)	
TU702	1-693-415-11	TUNER, MOD/IF SOLID TYPE (ED1/ED2/ED3/ED4/ED6/ED7MN)	
TU702	1-693-416-11	TUNER, MOD/IF SOLID TYPE (EZ1/EZ4/EZ7)	
< VIBRATOR >			
X161	1-767-855-11	VIBRATOR, CRYSTAL (10MHz)	
X162	1-579-463-11	VIBRATOR, CRYSTAL (32.768kHz)	
* X201	1-760-709-11	VIBRATOR, CRYSTAL (3.58MHz) (ED1/ED2/ED3/ED4/ED5/ED6/ED7)	
X202	1-760-708-11	VIBRATOR, CRYSTAL (4.43MHz)	
X401	1-767-856-11	VIBRATOR, CRYSTAL (17.734475MHz)	
X402	1-767-857-11	VIBRATOR, CRYSTAL (14.31818MHz) (ED5/ED7FS/ED7MI)	
*	A-6791-575-A	MF-312 BOARD, COMPLETE (ED3/ED7MI/EZ4/EZ7)	
*	A-6791-587-A	MF-312 BOARD, COMPLETE (ED4/ED5)	
*	A-6791-589-A	MF-312 BOARD, COMPLETE (ED6/ED7FS/ED7MN)	
***** (Ref.No. 1,000 Series)			
< CAPACITOR >			
C401	1-163-809-11	CERAMIC CHIP 0.047uF 10% 25V	
C481	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V (ED4/ED5/ED6/ED7FS/ED7MN)	
C491	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V (ED4/ED5/ED6/ED7FS/ED7MN)	
C493	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V (ED4/ED5/ED6/ED7FS/ED7MN)	
< CONNECTOR >			
CN407	1-506-484-11	PIN, CONNECTOR 5P (ED4/ED5/ED6/ED7FS/ED7MN)	
CN408	1-691-064-31	HOUSING, CONNECTOR 5P	
< DIODE >			
D405	8-719-056-07	DIODE SLR-342MCT31 (ON/STANDBY)	
D480	8-719-109-93	DIODE RD6.2ES-B2 (ED4/ED5/ED6/ED7FS/ED7MN)	
D481	8-719-108-12	DIODE RD9.1E-W (ED4/ED5/ED6/ED7FS/ED7MN)	
D490	8-719-108-12	DIODE RD9.1E-W (ED4/ED5/ED6/ED7FS/ED7MN)	
D491	8-719-108-12	DIODE RD9.1E-W (ED4/ED5/ED6/ED7FS/ED7MN)	
< IC >			
IC401	8-749-011-05	IC GP1U28X	

Ref. No.	Part No.	Description	Remark
< JACK >			
J481	1-784-570-11	JACK, PIN 3P (LINE-2 IN) (ED4/ED5)	
J481	1-766-861-11	JACK, PIN 3P (LINE-2IN)(ED6/ED7FS/ED7MN)	
< JUMPER RESISTOR >			
JR400	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR401	1-216-296-00	METAL CHIP 0 5% 1/8W (ED4/ED5/ED6/ED7FS/ED7MN)	
JS491	1-216-295-00	METAL CHIP 0 5% 1/10W (ED4/ED5)	
JS494	1-216-295-00	METAL CHIP 0 5% 1/10W (ED6/ED7FS/ED7MN)	
< RESISTOR >			
R401	1-216-029-00	METAL CHIP 150 5% 1/10W	
R402	1-216-295-00	METAL CHIP 0 5% 1/10W	
R403	1-216-295-00	METAL CHIP 0 5% 1/10W	
R480	1-216-022-00	METAL CHIP 75 5% 1/10W (ED4/ED5/ED6/ED7FS/ED7MN)	
R490	1-216-295-00	METAL CHIP 0 5% 1/10W (ED6/ED7FS/ED7MN)	
R490	1-216-041-00	METAL CHIP 470 5% 1/10W (ED4/ED5)	
R491	1-216-295-00	METAL CHIP 0 5% 1/10W (ED6/ED7FS/ED7MN)	
R491	1-216-041-00	METAL CHIP 470 5% 1/10W (ED4/ED5)	
< SWITCH >			
S403	1-762-196-21	SWITCH, TACT (ON/STANDBY)	
*	A-6791-591-A	NK-11 BOARD, COMPLETE (ED7MI/ED7MN/EZ7NZ)	
***** (Ref.No. 1,000 Series)			
< CAPACITOR >			
C003	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C004	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C005	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C006	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C007	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C008	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C009	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C010	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C011	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C012	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C013	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C014	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C015	1-163-231-11	CERAMIC CHIP 15PF 5% 50V	
C016	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C017	1-110-501-11	CERAMIC CHIP 0.33uF 10% 16V	
C018	1-163-989-11	CERAMIC CHIP 0.033uF 10% 25V	
C019	1-109-982-11	CERAMIC CHIP 1uF 10% 10V	
C020	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C021	1-113-642-11	TANTAL. CHIP 47uF 10% 10V	
C022	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C023	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	

NK-11

POWER BLOCK

RJ-80

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN001	1-691-183-11	CONNECTOR (BOARD TO BOARD) 13P	
		< DIODE >	
D001	8-719-066-72	DIODE BB135	
		< FERRITE BEAD >	
FB001	1-543-813-21	FERRITE 0UH	
FB002	1-543-813-21	FERRITE 0UH	
FB003	1-543-813-21	FERRITE 0UH	
		< IC >	
IC001	8-759-526-43	IC TDA9874H/V1,118	
		< COIL >	
L006	1-412-945-11	INDUCTOR 3.3uH	
		< IC LINK >	
△PS001	1-576-122-21	LINK, IC CCP2E10 (0.4A)	
		< RESISTOR >	
R001	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R002	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R003	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R004	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R005	1-216-041-00	METAL CHIP 470 5% 1/10W	
R006	1-216-041-00	METAL CHIP 470 5% 1/10W	
R007	1-216-001-00	METAL CHIP 10 5% 1/10W	
R008	1-216-001-00	METAL CHIP 10 5% 1/10W	
R009	1-216-001-00	METAL CHIP 10 5% 1/10W	
R010	1-216-001-00	METAL CHIP 10 5% 1/10W	
R011	1-216-304-11	METAL CHIP 3.3 5% 1/10W	
R012	1-216-304-11	METAL CHIP 3.3 5% 1/10W	
R013	1-216-001-00	METAL CHIP 10 5% 1/10W	
R014	1-216-295-00	METAL CHIP 0 5% 1/10W	
R015	1-216-295-00	METAL CHIP 0 5% 1/10W	
R016	1-216-033-00	METAL CHIP 220 5% 1/10W	
		< VIBRATOR >	
X001	1-767-897-11	VIBRATOR, CRYSTAL (24.576 MHz)	
		1-468-312-11 POWER BLOCK (HS-921SF) (ED1/ED2)	
		1-468-312-21 POWER BLOCK (HS-921SF1)	
		(ED3/ED4/ED5/ED6)	

		(Ref.No. 3,000 Series)	
		< CAPACITOR >	
C101	1-115-165-11	FILM 0.1uF 250V	
C102	1-115-165-11	FILM 0.1uF 250V	
C108	9-980-012-01	ELECT 150uF 400V	
C207	1-126-964-11	ELECT 10uF 50V	
C401	1-126-967-11	ELECT 47uF 50V	

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D102	8-719-312-16	DIODE EG01	
D104	9-980-073-01	DIODE 1SS270A	
D106	8-719-100-30	DIODE RD12ES	
D201	8-719-018-83	DIODE D2S4M	
D401	8-719-052-89	DIODE D1NL40	
D501	8-719-026-52	DIODE 10ELS2	
		< FUSE >	
F101	1-532-388-31	FUSE (2.0A/250V)	
		< IC >	
IC101	9-939-634-01	IC MIP-164	
IC201	8-759-420-19	IC AN1431T	
		< PHOTO COUPLER >	
PC101	8-749-924-84	COUPLER, PHOTO PS2561	
		1-468-311-11 POWER BLOCK (SR-718) (EZ1)	
		1-468-311-21 POWER BLOCK (SR-708) (ED7/EZ4/EZ7)	

		(Ref.No. 4,000 Series)	
		< CAPACITOR >	
C112	1-130-495-51	FILM 0.1uF 50V	
C114	1-130-495-51	FILM 0.1uF 50V	
C115	1-130-495-51	FILM 0.1uF 50V	
		< DIODE >	
D107	9-900-534-01	DIODE ERA18-02	
D108	9-900-534-01	DIODE ERA18-02	
D205	9-900-534-01	DIODE ERA18-02	
		< FUSE >	
F101	1-532-388-31	FUSE (2.0A/250V)	
		< IC >	
IC201	8-759-420-19	IC AN1431T	
		< PHOTO COUPLER >	
PC101	8-749-924-84	COUPLER, PHOTO PS2561	
		< RESISTOR >	
R208	9-908-233-01	FUSIBLE 0.47 1/4W	

		A-6791-583-A RJ-80 BOARD, COMPLETE (ED3/ED4/ED5)	
		A-6791-585-A RJ-80 BOARD, COMPLETE (ED6/ED7)	

		(Ref.No. 1,000 Series)	
		< CAPACITOR >	
C910	1-163-038-00	CERAMIC CHIP 0.1uF 25V	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C912	1-126-157-11	ELECT	10uF	20%	16V (ED3/ED4/ED5)	*	A-6791-577-A	SE-73 BOARD, COMPLETE (ED3/ED7FS)			
C913	1-126-157-11	ELECT	10uF	20%	16V (ED6/ED7)			*****	(Ref.No. 1,000 Series)		
C914	1-126-157-11	ELECT	10uF	20%	16V (ED6/ED7)			< CAPACITOR >			
C915	1-126-157-11	ELECT	10uF	20%	16V (ED6/ED7)	C951	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C916	1-126-157-11	ELECT	10uF	20%	16V (ED6/ED7)	C952	1-124-257-00	ELECT	2.2uF	20%	50V
						C953	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
						C954	1-164-232-11	CERAMIC CHIP	0.01uF		50V
						C955	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
						C956	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
						C957	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
						C958	1-164-232-11	CERAMIC CHIP	0.01uF		50V
						C959	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
						C960	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
						C961	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
						C962	1-164-232-11	CERAMIC CHIP	0.01uF		50V
						C963	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
						C964	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
						C965	1-164-232-11	CERAMIC CHIP	0.01uF		50V
						C967	1-126-157-11	ELECT	10uF	20%	16V
						C968	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
						C972	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
						C973	1-164-232-11	CERAMIC CHIP	0.01uF		50V
						C974	1-164-232-11	CERAMIC CHIP	0.01uF		50V
						C975	1-164-232-11	CERAMIC CHIP	0.01uF		50V
						C976	1-126-157-11	ELECT	10uF	20%	16V
								< CONNECTOR >			
						CN902	1-573-825-11	CONNECTOR, BOARD TO BOARD	11P		
								< IC >			
						IC951	8-759-438-17	IC	LA7337		
								< JUMPER RESISTOR >			
						JR951	1-216-296-91	SHORT	0		
						JR952	1-216-296-91	SHORT	0		
						JR953	1-216-296-91	SHORT	0		
						JR954	1-216-295-00	METAL CHIP	0	5%	1/10W
						JR955	1-216-295-00	METAL CHIP	0	5%	1/10W
								< COIL >			
						L951	1-414-933-11	INDUCTOR	6.8uH		
						L952	1-414-945-11	INDUCTOR	27uH		
						L956	1-414-934-21	INDUCTOR	10uH		
								< TRANSISTOR >			
						Q951	8-729-010-29	TRANSISTOR	MSD601-RST1		
						Q952	8-729-010-05	TRANSISTOR	MSB709-RT1		
						Q953	8-729-424-08	TRANSISTOR	UN2111		
						Q954	8-729-010-29	TRANSISTOR	MSD601-RST1		
						Q955	8-729-010-29	TRANSISTOR	MSD601-RST1		
						Q956	8-729-424-08	TRANSISTOR	UN2111		
						Q957	8-729-010-29	TRANSISTOR	MSD601-RST1		
						Q958	8-729-010-05	TRANSISTOR	MSB709-RT1		
								< RESISTOR >			
						R951	1-216-085-00	METAL CHIP	33K	5%	1/10W
						R952	1-216-091-00	METAL CHIP	56K	5%	1/10W
						R953	1-216-083-00	METAL CHIP	27K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R954	1-216-081-00	METAL CHIP	22K	5%	1/10W
R955	1-216-295-00	METAL CHIP	0	5%	1/10W
R956	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R957	1-216-089-00	METAL CHIP	47K	5%	1/10W
R960	1-216-085-00	METAL CHIP	33K	5%	1/10W
R961	1-216-083-00	METAL CHIP	27K	5%	1/10W
R962	1-216-073-00	METAL CHIP	10K	5%	1/10W
R965	1-216-041-00	METAL CHIP	470	5%	1/10W
R966	1-216-089-00	METAL CHIP	47K	5%	1/10W
R967	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R968	1-216-085-00	METAL CHIP	33K	5%	1/10W
R969	1-216-025-91	RES, CHIP	100	5%	1/10W
R970	1-216-295-00	METAL CHIP	0	5%	1/10W
R971	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R973	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R974	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R975	1-216-073-00	METAL CHIP	10K	5%	1/10W
R976	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R977	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R979	1-216-295-00	METAL CHIP	0	5%	1/10W
R980	1-216-025-91	RES, CHIP	100	5%	1/10W
R981	1-216-073-00	METAL CHIP	10K	5%	1/10W
R982	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R983	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R984	1-216-101-00	METAL CHIP	150K	5%	1/10W
R985	1-216-029-00	METAL CHIP	150	5%	1/10W
R986	1-216-071-00	METAL CHIP	8.2K	5%	1/10W

MISCELLANEOUS

10	1-783-567-11	CABLE, FLAT (FDS-4) (ED1/ED2/EZ1)
52	1-783-566-11	CABLE, FLAT (FMD-12) (ED1/ED2/EZ1)
△ 56	1-777-854-21	CORD, POWER (ED1/ED2)
△ 56	1-777-855-22	CORD, POWER (EZ1)
111	1-783-569-11	CABLE, FLAT (FDM-4) (EXCEPT ED1/ED2/EZ1)
114	1-783-568-11	CABLE, FLAT (FMF-23)(EXCEPT ED1/ED2/EZ1)
123	1-762-844-21	SWITCH, ROTARY (ED4/ED5)
△ 157	1-777-854-21	CORD, POWER (ED3/ED4/ED5/ED6/ED7)
△ 157	1-777-855-22	CORD, POWER (EZ4/EZ7)
160	1-783-566-11	CABLE, FLAT (FMD-12) (ED3)
704	1-500-144-11	HEAD, FE
768	1-759-183-11	DRUM ASSY DZH-78A-R (ED1/ED2/ED3/EZ1)
768	8-839-037-04	DRUM ASSY DZH-74E/Z-RP (ED4/ED5/EZ4)
768	8-839-045-02	DRUM ASSY DZH-95A/Z-RP (ED6/ED7/EZ7)
M902	1-698-971-11	MOTOR, DC (CAPSTAN)
M903	X-3947-577-1	MOTOR ASSY, CAM

HARDWARE LIST

#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3
#2	7-682-547-04	SCREW +P 3X6
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3
#4	7-685-133-19	SCREW (DIA. 2.6) (IT3B)

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	*****
	1-475-613-21	COMMANDER, STANDARD (RMT-V248A)	(ED1/ED3)
	1-475-614-21	COMMANDER, STANDARD (RMT-V245A)	(EZ4/EZ7)
	1-475-614-31	COMMANDER, STANDARD (RMT-V245B)	(ED2/EZ1)
	1-475-616-11	COMMANDER, STANDARD (RMT-V247)	(ED4/ED5/ED6/ED7FS)
	1-475-616-21	COMMANDER, STANDARD (RMT-V247A)	(ED7: MI, MN)
△	1-569-008-11	ADAPTOR, CONVERSION 2P (ED1: ME, SG)	
	1-696-593-11	CORD, CONNECTION (PAL) (ANT) 1.5m	
	3-709-128-01	COVER, BATTERY (for RMT-V245B) (ED2/EZ1)	
	3-709-133-11	COVER, BATTERY (for RMT-V247/V247A)	(ED4/ED5/ED6/ED7)
	3-709-322-01	COVER, BATTERY (for RMT-V248A) (ED1/ED3)	
	3-709-128-01	COVER, BATTERY (for RMT-V245A) (EZ4/EZ7)	
	3-861-803-11	MANUAL, INSTRUCTION (ENGLISH)	(ED6/ED7FS)
	3-861-803-21	MANUAL, INSTRUCTION (ARABIC)	(ED6: ME, SG/ED7FS)
	3-861-803-31	MANUAL, INSTRUCTION (PERSIAN) (ED6SG)	
	3-861-803-41	MANUAL, INSTRUCTION (URDU) (ED6SG)	
	3-861-803-51	MANUAL, INSTRUCTION (RUSSIAN)	(ED6: PS, SG)
	3-861-803-61	MANUAL, INSTRUCTION (FRENCH) (ED7FS)	
	3-861-804-11	MANUAL, INSTRUCTION (ENGLISH) (EZ4/EZ7)	
	3-861-806-11	MANUAL, INSTRUCTION (ENGLISH)	(ED4/ED5)
	3-861-806-21	MANUAL, INSTRUCTION (ARABIC)	(ED4; ME, SG/ED5)
	3-861-806-31	MANUAL, INSTRUCTION (PERSIAN) (ED4SG)	
	3-861-806-41	MANUAL, INSTRUCTION (URDU) (ED4SG)	
	3-861-806-51	MANUAL, INSTRUCTION (RUSSIAN)	(ED4: PS, SG)
	3-861-807-11	MANUAL, INSTRUCTION (ENGLISH) (ED1)	
	3-861-807-21	MANUAL, INSTRUCTION (ARABIC)	(ED1: ME, SG)
	3-861-807-31	MANUAL, INSTRUCTION (PERSIAN) (ED1SG)	
	3-861-807-41	MANUAL, INSTRUCTION (URDU) (ED1SG)	
	3-861-807-51	MANUAL, INSTRUCTION (RUSSIAN)	(ED1: PS, SG)
	3-861-808-11	MANUAL, INSTRUCTION (ENGLISH) (ED2)	
	3-861-809-11	MANUAL, INSTRUCTION (ENGLISH) (ED3)	
	3-861-809-21	MANUAL, INSTRUCTION (ARABIC) (ED3)	
	3-861-809-31	MANUAL, INSTRUCTION (FRENCH) (ED3)	
	3-861-810-11	MANUAL, INSTRUCTION (ENGLISH) (EZ1)	
	3-862-020-11	MANUAL, INSTRUCTION (ENGLISH)	(ED7: MI, MN)
	3-862-020-21	MANUAL, INSTRUCTION (CHINESE) (ED7MI)	
*	3-961-581-01	SHEET, PROTECTION (ED1/ED2/EZ1)	
*	3-979-709-01	CUSHION (ED1/ED2/EZ1)	
*	3-979-710-01	SPACER (ED1/ED2/EZ1)	
*	3-987-410-03	INDIVIDUAL CARTON (ED1PS)	
*	3-987-410-11	INDIVIDUAL CARTON (ED1ME)	
*	3-987-410-22	INDIVIDUAL CARTON (ED1SG)	
*	3-987-410-42	INDIVIDUAL CARTON (EZ1)	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
*	3-987-410-52	INDIVIDUAL CARTON (ED2)	
*	3-987-419-02	INDIVIDUAL CARTON (ED4PS)	
*	3-987-419-12	INDIVIDUAL CARTON (ED4SG)	
*	3-987-419-22	INDIVIDUAL CARTON (ED5)	
*	3-987-419-42	INDIVIDUAL CARTON (EZ4)	
*	3-987-419-52	INDIVIDUAL CARTON (ED3)	
*	3-987-419-81	INDIVIDUAL CARTON (ED4ME)	
*	3-987-420-02	INDIVIDUAL CARTON (ED6PS)	
*	3-987-420-12	INDIVIDUAL CARTON (ED6ME)	
*	3-987-420-22	INDIVIDUAL CARTON (ED7MN)	
*	3-987-420-32	INDIVIDUAL CARTON (EZ7AS)	
*	3-987-420-42	INDIVIDUAL CARTON (EZ7NZ)	
*	3-987-420-51	INDIVIDUAL CARTON (ED7MI)	
*	3-987-420-62	INDIVIDUAL CARTON (ED7FS)	
*	3-987-420-92	INDIVIDUAL CARTON (ED6SG)	
*	3-987-421-01	CUSHION (EXCEPT ED1/ED2/EZ1)	

